













A NEW AND COMPLETE SET  
OF  
**D E C I M A L      T A B L E S,**  
ON AN IMPROVED SYSTEM, FOR CALCULATING  
**M O N I E S   A N D   W E I G H T S.**

PARTICULARLY ADAPTED FOR  
PUBLIC AND CORPORATE BODIES, MERCHANTS, BANKERS, TRADERS,  
AND EXCHANGE-BROKERS;

WITH  
**A N   A P P E N D I X,**  
CONTAINING  
**Various Examples**  
AND  
**SIX TIME-TABLES FOR ACCOUNTS-CURRENT.**

---

SECOND EDITION,  
WITH AN INTRODUCTION, EXPLAINING THE PRINCIPLES OF DECIMAL FRACTIONS, AS APPLIED TO THE  
TABLES COMPRISED IN THIS WORK.

BY JOHN WESGATE,  
MERCANTILE AGENT

Nihil est tam utile, quod in transitu prosit.

LONDON  
PRINTED FOR EFFINGHAM WILSON, ROYAL EXCHANGE.

1823.

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**Entered at Stationers' Hall.**  
**PRICE ONE GUINEA.**

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# P R E F A C E.



At a period when the press abounds with numerical tables for expediting commercial calculations, some apology may perhaps be expected for obtruding another work of a similar description upon the public notice. The Author trusts that the practical utility of the Tables themselves, and the originality and accuracy of their construction, will justify the many flattering commendations which they have received from some of the first mercantile houses to whose inspection they have been submitted.

Decimals have ever been highly esteemed by men of science, as well for the simplicity of their principles as for the nicety of result which they produce with so much comparative facility. It must, therefore, excite considerable surprise in those who are acquainted with the powers of this species of numbers, that they should not have been more generally introduced into commercial calculations, in which accuracy and dispatch are such great desiderata. Perhaps the only probable mode of accounting for this exclusion, is the very superficial manner in which all school-books treat upon this interesting and important branch of Arithmetic. They merely contain a few common rules for the working of decimals, without any particular application of them to the purposes of real business.

These considerations, strengthened by his own experience of the practical utility of decimals, during a long engagement with one of the first commercial establishments in Europe, induced the Author to construct the present Tables, and submit them to the inspection of several eminent merchants, who were pleased to pronounce them novel, useful, and highly deserving of the attention and patronage of the Public.

The utility of these Tables will hardly be denied, if that of Arithmetic, in general, be admitted; for, certainly, when accuracy and facility are combined with dispatch, much has been gained over the old formula of calculation. It will also be found to be a peculiar feature in these Tables, that they are by no means *local* in their application, being equally well adapted for Government Offices, Establishments of Corporate Bodies, Merchants, Ship-Owners, Bankers, Bullion Dealers, Brokers, and all the various professions and trades which compose the commercial body of this great metropolis. Nor will their utility be confined solely to these: Professors in Universities, Masters of Academies, and private tutors, will alike experience the benefit of them: to the latter they will be found particularly serviceable as exercises, either in a multifarious or contrasted series, according to the judgment of the tutor, or the capacity of the pupil.

The advantages of this system, over the common method of working by *fractions*, will easily be seen by a reference to page 56 of the Appendix, where a comparative view of the two operations will be shewn. It should be observed, that when the decimals have *five places*, it is immaterial whether or not the *fifth one* be taken full, but in casting but one and the same article by two different methods, so as to make the amounts agree exactly, an equal number of decimals must be extended and pointed off in the quotient, (see Appendix, page 59, Ex. 1st and 2nd.)

The Ounces and Pounds Troy being sufficiently elucidated in the Appendix, page 56, the Author will only observe, that Hundred Weights can also be reduced into Ton Weights and calculated by the same method.

To the Time-Tables is annexed an additional one for a Leap-Year. The first Table shews the number of Days from any Day in one Month to the same Day in any other Month, and the one immediately succeeding is adapted for accounts-current for six months ending the 30th of June. Any number of days from this date to the 1st of December, inclusive, will be found in the Twelve Months Table.

The Author hopes, that upon a thorough examination of his Work, it will be found neither unworthy of the eminent patronage it has already received, nor undeserving the support of an intelligent Public; to insure which, it has been his greatest care to free it from all typographical and numerical errors, and unite, as much as possible, convenience of form with facility of reference.

The Author cannot conclude this Preface without acknowledging, in the most grateful terms, the honour conferred upon him by His Majesty's Right Honourable and Honourable Boards, by the Bank of England, by the Honourable East India Company, and other Corporate Bodies, and by every Gentleman, individually, who has been pleased to contribute to this laborious Work, and to assure them, he shall ever esteem it his highest reward to have merited their patronage and support.

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# INTRODUCTION.

TO persons unacquainted with the principles of DECIMAL FRACTIONS, the following explanations may be necessary, and will enable them to comprehend the various and extensive Tables comprised in this work.

The difficulty in *Vulgar Fractions* arises chiefly from the variety of denominators, which are both tedious and intricate; in many instances they cannot be easily compared; it was therefore desirable that a New System should be framed for *general Calculations*, which would ascertain their results with facility and with the greatest precision. This consideration gave rise to the invention of *Decimal Fractions*, where the units are divided into like parts, and the divisions and subdivisions are regulated by the same scale as used in arithmetic of Integers. (See Scale in Appendix, page 55.)

A *Decimal Fraction* is another mode of designating or expressing *Vulgar Fractions*, as whole numbers. The denominators of *Vulgar Fractions* are various, whereas the denominators of *Decimal Fractions* are uniform: for a *Decimal Fraction* has always for its Denominator a unit with a cypher or cyphers annexed to it, and therefore, on a bare inspection only, must be understood to be either a 10th part, 100th part, 1000th part, &c. as expressed in the following examples. Decimals are also distinguished by a point, which separates them from integers, to which they are frequently annexed. This point is sometimes called the *separatrix*.

Thus,  $\frac{5}{10}$  are equivalent to .5  
 $\frac{25}{100}$  ————— .25  
 $\frac{75}{1000}$  — .075  
 $\frac{125}{10000}$  — .0125  
 $\frac{125000}{10000000}$  .00125

*Note.*—As there are three cyphers in the denominator of  $\frac{75}{1000}$ , and two places of Fractions only in the numerator, we prefix a cypher thereto, and the Decimal is .075.

(Addition.)	(Subtraction.)	(Multiplication.)
518.25	215.032	5.175
27.125	51.1715	3.25
372.3	Result 163.8605	25875
54.5739	Proof 215.0320	10350
98.75		15525
Result 1070.9089		Result 16.81875

In the two first examples there are four given places in the decimals, therefore we point off four in each result. And in the last example there are three places in the multiplicand, and two in the multiplier; consequently, we must point off five places in the result.

*Note.*—That .032 in the second example is considered as .0320; but as cyphers on the right-hand of the decimal places ought always to be avoided, we have here rejected them.

## DIVISION OF DECIMALS.

Division of decimals is performed after the same manner as division of whole numbers: but to know the value or denomination of the quotient, the following Rules, Examples, &c. ought carefully to be observed.

## INTRODUCTION.

### RULES.

1st —The first figure in the quotient must be of the same denomination with that figure in the dividend which stands (or is supposed to stand) over the unit's place in the divisor, at the first seeking.

2nd. —When the work of division is ended, count how many places of decimal parts there are in the dividend more than in the divisor: for that excess is the number of places which must be separated in the question for decimals. But if there be not so many figures in the quotient as there are in the said excess, that deficiency must be supplied, by placing cyphers before the significant figures toward the left hand, with a *point* before them; and thus will plainly discover the value of the quotient. (See Ex. 2, p. xiii.)

### OBSERVATIONS.

If the divisor consists of more places than the dividend, annex a competent number of cyphers, (at least,) or more places of decimals to the dividend than the divisor. (See Examples 2, pages vi. and xvi.) But when a stated number of places (five, for instance,) are required in the quotient, annex five to the dividend. (See Examples below.)

In dividing whole or mixed numbers, after the last given place of the dividend is brought down into the remainder, annex a cypher or cyphers thereto, and continue the quotient to as many places as are necessary to ascertain the result. (See Example 1, Miscellaneous, page xv.)

### Comparative Examples on VULGAR and DECIMAL FRACTIONS.

*The Value of Weights ascertained, and the Decimals thereto, of Fractions of different Denominators.*

The last Examples in each of the different Weights and Monies in this work, are here introduced to shew the nearest proportion of the decimals thereto, by comparing them with the preceding Tables. And as the decimals therein were wrought exactly upon the same principle, they will prove of the greatest utility to Novices, and enable them to convert any vulgar fraction whatever into decimal parts.

### TROY WEIGHT.

Required the value of  $\frac{7}{16}$  of an O

$$\begin{array}{r}
 7 \\
 20 \\
 \hline
 9 \overline{)140} \\
 \hline
 \text{Dcts. } 15 \text{--} 5 \\
 24 \\
 \hline
 9 \overline{)120} \\
 \hline
 \text{Grs. } 13 \frac{1}{2}
 \end{array}$$

Required the Decimal of  $\frac{7}{16}$  of an Oz.; and of 15 dcts. 13 grs. of an Oz.

$  \begin{array}{r}  9 \overline{)7.00000} \quad \text{or,} \\  \hline  \text{Result } .77777 \\  \hline  .77777 \\  9 \\  \hline  \text{Proof } 7.00000  \end{array}  $	$  \begin{array}{r}  9 \overline{)7.00000} \\  \hline  \text{Result } .77778 \\  \hline  .77778 \\  9 \\  \hline  \text{Proof } 7.00002  \end{array}  $
--	---

$$\begin{array}{r}
 15 \text{ dcts. } 13 \text{ grs.} = 373 \text{ grs.} \\
 48 \overline{)373.0000} \quad 0(.77709 \\
 \hline
 336 \quad 20 \\
 \hline
 376 \quad \text{dcts. } 15.54180 \\
 \hline
 336 \quad 24 \\
 \hline
 340 \quad 21672 \\
 \hline
 336 \quad 10836 \\
 \hline
 400 \quad \text{grs. } 13.0032 \\
 \hline
 432 \\
 \hline
 32
 \end{array}$$

(See Table, p. 16.)

Result.—The Weight in the first Example .. is 15 dcts. 13 grs.

—Decimal in the second Example is .77777

in the third Example is .77709

In the first Example we reduce the numerator into dwts. by 20, and divide by the denominator, which gives 15 dwts., and the 5 remaining we reduce by 24, and the result is 15 dwts. 13 grs.

In the second Example, we first annex a point and five cyphers to the numerator, because there are to be five places in the decimal required.—Next, we divide by the denominator, and the quotient is .77777—but as the last place of the decimal is a repeater, we mark it as above, to denote its continuation. In the proof we multiply by the denominator, and take in 7, the remainder, and the result is 7.00000.

But in common calculations, we should always (as in the next Example,) take the last decimal place in the quotient full: as, for instance, the proof gives only an excess of  $\frac{1}{100000}$  parts of a unit.

In the last Example, we first reduce the 15 dwts. into grains by 24, and, including the 13 therein, it makes 373 grains; and divide by 480, (the grains in the oz.) Then we annex five cyphers to the numerator, and strike off the fifth and the one in the denominator, and the quotient is .77709. Here we should observe, that the cypher in the numerator (though struck off) counts as one decimal place, which must be evident, because, if the figure (3) preceding the point had, in lieu of it, been struck off, it would in that case have been only a decimal place, and four cyphers have sufficed.

Lastly.—Respecting the difference of  $\frac{6}{100}$  between the quotients .77777 and .77709, it is obvious, from the Examples themselves, that  $\frac{1}{5}$  is a greater portion than  $\frac{1}{10}$  parts is of an Oz.

Required the Value of  $\frac{175}{12}$  of a Lb.

$$\begin{array}{r}
 175 \\
 12 \overline{) 1579} 2100 (1 \text{ oz.} \\
 \underline{1579} \\
 521 \\
 20 \overline{) 10420} (6 \text{ dwts.} \\
 \underline{9474} \\
 946 \\
 24 \overline{) 3784} \\
 \underline{1802} \\
 1579 \overline{) 22704} (14 \text{ grs.} \\
 \underline{1579} \\
 6914 \\
 \underline{6316} \\
 598
 \end{array}$$

Required the Decimal of  $\frac{175}{12}$  of a Lb.; and of 1 oz. 6 dwts. 14 grs. of a Lb.

1 oz. 6 dwts. 14 grs. = 638 grs.

1579)175.0(	.11083.	576)638.0(	.11077
1579	12	576	12
1710	oz. 1.32990	620	oz. 1.32924
1579	20	576	20
13100	dwts. 6.59920	4400	dwts. 6.59480
12632	24	4032	24
4680	23968	3080	23392
4737	11984	4032	11696
57	grs. 14.3808	352	grs. 14.0852

(See Table, p. 22.)

Result.—The Weight in the first Example .. is 1 oz. 6 dwts. 14 grs.

—Decimal in the second Example is .11083

— in the third Example is .11077

In the second Example we annex only one cypher to the numerator, in lieu of five, (see Examples, page x.) as being sufficient to ascertain the first figure in the quotient, but the other four we afterwards annex to the cyphers brought down, and the result is .11083; which is the number of decimal places or cyphers contained in the numerator and remainders.

And in the result, it is immaterial whether or not the cypher of the 20 be brought down into the remainder of the dwts, but we must count it as one place in the decimal: otherwise, there would be five places in the oz. and only four in the dwts.

**HUNDREDS WEIGHT.**

**Required the Value of  $\frac{22}{7}$  of a Cwt.**

$$\begin{array}{r} 29 \\ 4 \\ \hline 75) 116 (1 \text{ qr.} \\ 75 \\ \hline 41 \\ 28 \\ \hline 328 \\ 82 \\ \hline 75) 1148 (15 \text{ lbs.} \\ 75 \\ \hline 398 \\ 375 \\ \hline 23 \end{array}$$

• Required the Decimal of  $\frac{1}{3}$  of a Cwt.; and of 1 *qr.* 15 *lbs.* of a Cwt.

75) 29.0 (	.38667
225	4
<hr/>	<hr/>
650	<i>qr.</i> 1.54668
600	28
<hr/>	<hr/>
500	437344
450	109336
<hr/>	<hr/>
5.00	<i>lbs.</i> 15.30704
(1)	<hr/>
<hr/>	
500	
525	
25	

1 qr. 15 lbs. = 43 lbs.	
112) 43.0 (	.38393
336	4
<hr/>	<hr/>
940	qr. 1.53572
896	28
<hr/>	<hr/>
440	428576
336	107144
<hr/>	<hr/>
1040	lbs. 15.00000
1008	
<hr/>	
320	(See Table, p. 3.)
336	

16

**Result.**—The Weight in the first Example .. is 1 *qr.* 15 *lbs.*

— Decimal in the second Example is .38667

in the third Example is .38393

## TON WEIGHT.

Required the Value of  $\frac{1}{799}$  of a Ton.

$$\begin{array}{r}
 19 \\
 20 \\
 \hline
 799 \overline{) 380} (0 \text{ cwt.} \\
 4 \\
 \hline
 799 \overline{) 1520} (1 \text{ qr.} \\
 799 \\
 \hline
 721 \\
 28 \\
 \hline
 5768 \\
 1442 \\
 \hline
 799 \overline{) 20188} (25 \text{ lbs.} \\
 1598 \\
 \hline
 4208 \\
 3995 \\
 \hline
 213
 \end{array}$$

Required the Decimals of  $\frac{1}{799}$  of a Ton; and of 0 cwt. 1 qr. 25 lbs. of a Ton.

$  \begin{array}{r}  799 \overline{) 19.00} ( \\  1598 \\  \hline  3020 \\  2397 \\  \hline  6230 \\  5593 \\  \hline  6370 \\  6392 \\  \hline  22  \end{array}  $	$  \begin{array}{r}  .02378 \\  \hline  \text{cwt. } 0.47560 \\  \hline  \text{qr. } 1.9024 \\  \hline  28 \\  \hline  72192 \\  18048 \\  \hline  \text{lbs. } 25.2672  \end{array}  $	$  \begin{array}{r}  6 \text{ cwt. } 1 \text{ qr. } 25 \text{ lbs.} = 53 \text{ lbs.} \\  224 \overline{) 53.0} ( \\  448 \\  \hline  820 \\  672 \\  \hline  1480 \\  1314 \\  \hline  1660 \\  1568 \\  \hline  208  \end{array}  $	$  \begin{array}{r}  .02367 \\  \hline  20 \\  \hline  \text{cwt. } 0.47340 \\  \hline  4 \\  \hline  \text{qr. } 1.8936 \\  \hline  28 \\  \hline  71488 \\  17872 \\  \hline  \text{lbs. } 25.0208  \end{array}  $
---	---	---	--

(See Table, p. 5.)

Result.—The Value in the first Example is 0 cwt. 1 qr. 25 lbs.  
 ——— Decimal in the second Example is .02378  
 ——— in the third Example is .02367

In the second Example, we annex two cyphers to the numerator, and divide by the denominator, which gives 2 to the second place in the quotient, and we prefix a cypher thereto, because there are two in the numerator; or we may continue the work to four places, and then prefix the cypher to .2378, and the result is .02378.

## MONIES.

*The Value of Monies ascertained, and the Decimals thereto; of Fractions of different Denominators.*

Required the Value of  $\frac{1}{10}$  of a £ sterling.

$$\begin{array}{r} 19 \\ 20 \\ \hline 91 \overline{) 380} (4s. \\ 364 \\ \hline 16 \\ 12 \\ \hline 91 \overline{) 192} (2d. \\ 182 \\ \hline 10 \end{array}$$

Required the Decimal of  $\frac{1}{10}$  of a £ sterling; and of 4s. 2d. of a £ sterling.

4s. 2d. = 50d

$\begin{array}{r} 91 \overline{) 19.0} ( \\ 182 \\ \hline 800 \\ 819 \\ \hline 19 \end{array}$	$\begin{array}{r} .200 \\ 20 \\ \hline s. 4.180 \\ 12 \\ \hline d. 2.16 \end{array}$	$\begin{array}{r} 24 \overline{) 1250.0} ( \\ 48 \\ \hline 200 \\ 192 \\ \hline 80 \\ 72 \\ \hline 80 \\ 96 \\ \hline 16 \end{array}$	$\begin{array}{r} .20834 \\ 20 \\ \hline s. 4.16680 \\ 12 \\ \hline d. 2.0016 \\ (See Table, p. 2.) \end{array}$
--	--	---	--

Result.—The Value in the first Example.. is 4s. 2d.  
 ——— Decimal in the second Example is .208  
 ——— in the third Example is .20834

Required the Value of  $\frac{1}{100}$  of a £ sterling.

$$\begin{array}{r} 76 \\ 20 \\ \hline 765 \overline{) 1520} (1s. \\ 765 \\ \hline 755 \\ 12 \\ \hline 765 \overline{) 9060} (11d. \\ 8415 \\ \hline 645 \\ 4 \\ \hline 765 \overline{) 2580} (3 qrs. \\ 2295 \\ \hline 285 \end{array}$$

Required the Decimal of  $\frac{7}{105}$  of a £ sterling; and of 1s. 11 $\frac{1}{2}$ d. of a £ sterling.

$$\begin{array}{r}
 765 \overline{) 76.00} \quad .09935 \\
 \underline{6885} \quad 20 \\
 7150 \quad s. 1.98700 \\
 \underline{6885} \quad 12 \\
 2650 \quad d. 11.844 \\
 \underline{2295} \quad 4 \\
 3550 \quad qrs. 3.376 \\
 \underline{3325} \\
 275
 \end{array}$$

$$\begin{array}{r}
 1s. 11\frac{1}{2}d. = 95 \text{ Farthings.} \\
 96 \overline{) 95.00} \quad .09806 \\
 \underline{864} \quad 20 \\
 860 \quad s. 1.97920 \\
 \underline{768} \quad 12 \\
 920 \quad d. 11.7504 \\
 \underline{864} \quad 4 \\
 560 \quad qrs. 3.0016 \\
 \underline{576} \\
 16 \quad (See Table, p. 49.)
 \end{array}$$

Result.—The Value in the first Example . . . is 1s. 11 $\frac{1}{2}$ d.

— Decimal in the second Example is .09935

— in the third Example is .09806

See another method for finding the Decimals in Money in the Appendix, page 57.

## MISCELLANEOUS.

Divide 86.1765 by .1235 ——— Result 697.78  
 Divide .1165 by .0438 ——— Result 2.6598  
 Divide 133.579875 by 6.625 ——— Result 20.163  
 Divide 48.967 by 52.43576 ——— Result .9338

765  $\overline{) 697.78}$

$$\begin{array}{r}
 7410 \\
 \underline{12076} \\
 11115 \\
 \underline{9615} \\
 8645 \\
 \underline{8645} \\
 9700 \\
 \underline{8645} \\
 10550 \\
 \underline{9880} \\
 670
 \end{array}$$

Proof 86.176500

.0438  $\overline{) 2.6598}$

$$\begin{array}{r}
 .876 \\
 \underline{2890} \\
 2628 \\
 \underline{2620} \\
 2190 \\
 \underline{2190} \\
 4300 \\
 \underline{3942} \\
 3580 \\
 \underline{3504} \\
 76
 \end{array}$$

Proof .1650000



6.625) 133.579875 (20.163

13250

10798

6625

41737

39750

19875

19875

20.163

6.625

100815

40326

120978

120978

Proof 133.579875

52.43576) 48.967000 (.93384

47192184

17748160

15730728

20174320

15730728

44435920

41948608

24873120

20974304

3898816

.93384

52.43576

20974304

41948608

15730728

15730728

47192184

48.9666101184

3898816

Proof 48.9670000000

In the first Example the given dividend has four places of decimals, but with the two cyphers annexed to the remainders (870) and (1055), they make six; therefore we point off two places in the quotient, which with the four in the divisor, makes a like number, and the result is 697. 78. (See Observations, second paragraph, p. x.)

In the second Example, the units place of the divisor (if there had been any) would fall under the units place of the dividend; therefore the first figure of the quotient is units. And by the second rule (page ix.) there being eight places of decimals in the dividend and remainders, and but four places in the divisor, the excess is four; consequently, there must be four places of decimals in the quotient, and the result is, 2.6598.

The last Example having only three given places in the dividend, we annex three cyphers thereto, before we can begin to work it. (See Observation, first paragraph, p. x.)

*Notte.*—We have continued the proofs of the above Examples, for a double purpose; the one, to ascertain that the places of the decimals in the quotient are correct; and the other, to elucidate the method of *pointing* them off in multiplication.

## EXPLANATION

OF THE FOLLOWING TABLES FOR ASCERTAINING THE DECIMALS OF WEIGHTS THEREIN DESCRIBED, AND ALSO THEIR VALUE.

*To find the amount of 45 cwt. 1 qr. and 23 lbs. of Coffee, at 86s. 10d. per cwt.*

First, put down 45 cwt. and upon reference to the Table in page 3, it will be seen, that the 1 qr. 23 lbs. is equal to Decimal .45536.

5s.	½	Cwts. 45.45536
		£4 : 5 : 10
		181.82144
10d.	¼	11.36384
		1.89397
The result is.....		<u>£195.07925</u>

The Decimal .07925 being parts of a £ sterling, we must refer to the Table for its value.—In page 2, we shall find the nearest to it is .07917, or 1s. 7d.

# TABLE.

The Decimals from One Penny progressively to a Pound Sterling.

S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.
0	1	.00417	4	1	.20417	8	1	.40417	12	1	.60417	16	1	.80417
0	2	.00834	4	2	.20834	8	2	.40834	12	2	.60834	16	2	.80834
0	3	.0125	4	3	.2125	8	3	.4125	12	3	.6125	16	3	.8125
0	4	.01667	4	4	.21667	8	4	.41667	12	4	.61667	16	4	.81667
0	5	.02084	4	5	.22084	8	5	.42084	12	5	.62084	16	5	.82084
0	6	.025	4	6	.225	8	6	.425	12	6	.625	16	6	.825
0	7	.02917	4	7	.22917	8	7	.42917	12	7	.62917	16	7	.82917
0	8	.03334	4	8	.23334	8	8	.43334	12	8	.63334	16	8	.83334
0	9	.0375	4	9	.2375	8	9	.4375	12	9	.6375	16	9	.8375
0	10	.04167	4	10	.24167	8	10	.44167	12	10	.64167	16	10	.84167
0	11	.04584	4	11	.24584	8	11	.44584	12	11	.64584	16	11	.84584
1	0	.05	5	0	.25	9	0	.45	13	0	.65	17	0	.85
1	1	.05417	5	1	.25417	9	1	.45417	13	1	.65417	17	1	.85417
1	2	.05834	5	2	.25834	9	2	.45834	13	2	.65834	17	2	.85834
1	3	.0625	5	3	.2625	9	3	.4625	13	3	.6625	17	3	.8625
1	4	.06667	5	4	.26667	9	4	.46667	13	4	.66667	17	4	.86667
1	5	.07084	5	5	.27084	9	5	.47084	13	5	.67084	17	5	.87084
1	6	.075	5	6	.275	9	6	.475	13	6	.675	17	6	.875
1	7	.07917	5	7	.27917	9	7	.47917	13	7	.67917	17	7	.87917
1	8	.08334	5	8	.28334	9	8	.48334	13	8	.68334	17	8	.88334
1	9	.0875	5	9	.2875	9	9	.4875	13	9	.6875	17	9	.8875
1	10	.09167	5	10	.29167	9	10	.49167	13	10	.69167	17	10	.89167
1	11	.09584	5	11	.29584	9	11	.49584	13	11	.69584	17	11	.89584
2	0	.1	6	0	.3	10	0	.5	14	0	.7	18	0	.9
2	1	.10417	6	1	.30417	10	1	.50417	14	1	.70417	18	1	.90417
2	2	.10834	6	2	.30834	10	2	.50834	14	2	.70834	18	2	.90834
2	3	.1125	6	3	.3125	10	3	.5125	14	3	.7125	18	3	.9125
2	4	.11667	6	4	.31667	10	4	.51667	14	4	.71667	18	4	.91667
2	5	.12084	6	5	.32084	10	5	.52084	14	5	.72084	18	5	.92084
2	6	.125	6	6	.325	10	6	.525	14	6	.725	18	6	.925
2	7	.12917	6	7	.32917	10	7	.52917	14	7	.72917	18	7	.92917
2	8	.13334	6	8	.33334	10	8	.53334	14	8	.73334	18	8	.93334
2	9	.1375	6	9	.3375	10	9	.5375	14	9	.7375	18	9	.9375
2	10	.14167	6	10	.34167	10	10	.54167	14	10	.74167	18	10	.94167
2	11	.14584	6	11	.34584	10	11	.54584	14	11	.74584	18	11	.94584
3	0	.15	7	0	.35	11	0	.55	15	0	.75	19	0	.95
3	1	.15417	7	1	.35417	11	1	.55417	15	1	.75417	19	1	.95417
3	2	.15834	7	2	.35834	11	2	.55834	15	2	.75834	19	2	.95834
3	3	.1625	7	3	.3625	11	3	.5625	15	3	.7625	19	3	.9625
3	4	.16667	7	4	.36667	11	4	.56667	15	4	.76667	19	4	.96667
3	5	.17084	7	5	.37084	11	5	.57084	15	5	.77084	19	5	.97084
3	6	.175	7	6	.375	11	6	.575	15	6	.775	19	6	.975
3	7	.17917	7	7	.37917	11	7	.57917	15	7	.77917	19	7	.97917
3	8	.18334	7	8	.38334	11	8	.58334	15	8	.78334	19	8	.98334
3	9	.1875	7	9	.3875	11	9	.5875	15	9	.7875	19	9	.9875
3	10	.19167	7	10	.39167	11	10	.59167	15	10	.79167	19	10	.99167
3	11	.19584	7	11	.39584	11	11	.59584	15	11	.79584	19	11	.99584
4	0	.2	8	0	.4	12	0	.6	16	0	.8	20	0	—

## TABLE.

The Decimals from One Pound progressively to a Hundred Weight.

<i>Qrs.</i>	<i>lbs.</i>	<i>Decimals.</i>	<i>Qrs.</i>	<i>lbs.</i>	<i>Decimals.</i>	<i>Qrs.</i>	<i>lbs.</i>	<i>Decimals.</i>	<i>Qrs.</i>	<i>lbs.</i>	<i>Decimals.</i>
0	1	.00893	1	1	.25893	2	1	.50893	3	1	.75893
0	2	.01786	1	2	.26786	2	2	.51786	3	2	.76786
0	3	.02679	1	3	.27679	2	3	.52679	3	3	.77679
0	4	.03572	1	4	.28572	2	4	.53572	3	4	.78572
0	5	.04465	1	5	.29465	2	5	.54465	3	5	.79465
0	6	.05358	1	6	.30358	2	6	.55358	3	6	.80358
0	7	.0625	1	7	.3125	2	7	.5625	3	7	.8125
0	8	.07143	1	8	.32143	2	8	.57143	3	8	.82143
0	9	.08036	1	9	.33036	2	9	.58036	3	9	.83036
0	10	.08929	1	10	.33929	2	10	.58929	3	10	.83929
0	11	.09822	1	11	.34822	2	11	.59822	3	11	.84822
0	12	.10715	1	12	.35715	2	12	.60715	3	12	.85715
0	13	.11608	1	13	.36608	2	13	.61608	3	13	.86608
0	14	.125	1	14	.375	2	14	.625	3	14	.875
0	15	.13393	1	15	.38393	2	15	.63393	3	15	.88393
0	16	.14286	1	16	.39286	2	16	.64286	3	16	.89286
0	17	.15179	1	17	.40179	2	17	.65179	3	17	.90179
0	18	.16072	1	18	.41072	2	18	.66072	3	18	.91072
0	19	.16965	1	19	.41965	2	19	.66965	3	19	.91965
0	20	.17858	1	20	.42858	2	20	.67858	3	20	.92858
0	21	.1875	1	21	.4375	2	21	.6875	3	21	.9375
0	22	.19643	1	22	.44643	2	22	.69643	3	22	.94643
0	23	.20536	1	23	.45536	2	23	.70536	3	23	.95536
0	24	.21429	1	24	.46429	2	24	.71429	3	24	.96429
0	25	.22322	1	25	.47322	2	25	.72322	3	25	.97322
0	26	.23215	1	26	.48215	2	26	.73215	3	26	.98215
0	27	.24108	1	27	.49108	2	27	.74108	3	27	.99108
1	0	.25	2	0	.5	3	0	.75	4	0	—



# The Decimals from One Pound progressively to a Ton Weight.

Cwts.	Qrs.	lbs.	Decimals.	Cwts.	Qrs.	lbs.	Decimals.	Cwts.	Qrs.	lbs.	Decimals.	Cwts.	Qrs.	lbs.	Decimals.
0	0	1	.00045	0	2	1	.02545	1	0	1	.05045	1	2	1	.07545
0	0	2	.0009	0	2	2	.0259	1	0	2	.0509	1	2	2	.0759
0	0	3	.00134	0	2	3	.02634	1	0	3	.05134	1	2	3	.07634
0	0	4	.00179	0	2	4	.02679	1	0	4	.05179	1	2	4	.07679
0	0	5	.00224	0	2	5	.02724	1	0	5	.05224	1	2	5	.07724
0	0	6	.00268	0	2	6	.02768	1	0	6	.05268	1	2	6	.07768
0	0	7	.00313	0	2	7	.02813	1	0	7	.05313	1	2	7	.07813
0	0	8	.00358	0	2	8	.02858	1	0	8	.05358	1	2	8	.07858
0	0	9	.00402	0	2	9	.02902	1	0	9	.05402	1	2	9	.07902
0	0	10	.00447	0	2	10	.02947	1	0	10	.05447	1	2	10	.07947
0	0	11	.00492	0	2	11	.02992	1	0	11	.05492	1	2	11	.07992
0	0	12	.00536	0	2	12	.03036	1	0	12	.05536	1	2	12	.08036
0	0	13	.00581	0	2	13	.03081	1	0	13	.05581	1	2	13	.08081
0	0	14	.00625	0	2	14	.03125	1	0	14	.05625	1	2	14	.08125
0	0	15	.0067	0	2	15	.0317	1	0	15	.0567	1	2	15	.0817
0	0	16	.00715	0	2	16	.03215	1	0	16	.05715	1	2	16	.08215
0	0	17	.00759	0	2	17	.03259	1	0	17	.05759	1	2	17	.08259
0	0	18	.00804	0	2	18	.03304	1	0	18	.05804	1	2	18	.08304
0	0	19	.00849	0	2	19	.03349	1	0	19	.05849	1	2	19	.08349
0	0	20	.00893	0	2	20	.03393	1	0	20	.05893	1	2	20	.08393
0	0	21	.00938	0	2	21	.03438	1	0	21	.05938	1	2	21	.08438
0	0	22	.00983	0	2	22	.03483	1	0	22	.05983	1	2	22	.08483
0	0	23	.01027	0	2	23	.03527	1	0	23	.06027	1	2	23	.08527
0	0	24	.01072	0	2	24	.03572	1	0	24	.06072	1	2	24	.08572
0	0	25	.01117	0	2	25	.03617	1	0	25	.06117	1	2	25	.08617
0	0	26	.01161	0	2	26	.03661	1	0	26	.06161	1	2	26	.08661
0	0	27	.01206	0	2	27	.03706	1	0	27	.06206	1	2	27	.08706
0	1	0	.0125	0	3	0	.0375	1	1	0	.0625	1	3	0	.0875
0	1	1	.01295	0	3	1	.03795	1	1	1	.06295	1	3	1	.08795
0	1	2	.0134	0	3	2	.0384	1	1	2	.0634	1	3	2	.0884
0	1	3	.01384	0	3	3	.03884	1	1	3	.06384	1	3	3	.08884
0	1	4	.01429	0	3	4	.03929	1	1	4	.06429	1	3	4	.08929
0	1	5	.01474	0	3	5	.03974	1	1	5	.06474	1	3	5	.08974
0	1	6	.01518	0	3	6	.04018	1	1	6	.06518	1	3	6	.09018
0	1	7	.01563	0	3	7	.04063	1	1	7	.06563	1	3	7	.09063
0	1	8	.01608	0	3	8	.04108	1	1	8	.06608	1	3	8	.09108
0	1	9	.01652	0	3	9	.04152	1	1	9	.06652	1	3	9	.09152
0	1	10	.01697	0	3	10	.04197	1	1	10	.06697	1	3	10	.09197
0	1	11	.01742	0	3	11	.04242	1	1	11	.06742	1	3	11	.09242
0	1	12	.01786	0	3	12	.04286	1	1	12	.06786	1	3	12	.09286
0	1	13	.01831	0	3	13	.04331	1	1	13	.06831	1	3	13	.09331
0	1	14	.01875	0	3	14	.04375	1	1	14	.06875	1	3	14	.09375
0	1	15	.0192	0	3	15	.0442	1	1	15	.0692	1	3	15	.0942
0	1	16	.01965	0	3	16	.04465	1	1	16	.06965	1	3	16	.09465
0	1	17	.02009	0	3	17	.04509	1	1	17	.07009	1	3	17	.09509
0	1	18	.02054	0	3	18	.04554	1	1	18	.07054	1	3	18	.09554
0	1	19	.02099	0	3	19	.04599	1	1	19	.07099	1	3	19	.09599
0	1	20	.02143	0	3	20	.04643	1	1	20	.07143	1	3	20	.09643
0	1	21	.02188	0	3	21	.04688	1	1	21	.07188	1	3	21	.09688
0	1	22	.02233	0	3	22	.04733	1	1	22	.07233	1	3	22	.09733
0	1	23	.02277	0	3	23	.04777	1	1	23	.07277	1	3	23	.09777
0	1	24	.02322	0	3	24	.04822	1	1	24	.07322	1	3	24	.09822
0	1	25	.02367	0	3	25	.04867	1	1	25	.07367	1	3	25	.09867
0	1	26	.02411	0	3	26	.04911	1	1	26	.07411	1	3	26	.09911
0	1	27	.02456	0	3	27	.04956	1	1	27	.07456	1	3	27	.09956
0	2	0	.025	1	0	0	.05	1	2	0	.075	2	0	0	.1

2 : 0 : 1 to 4 : 0 : 0]

## TON WEIGHT.

Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.
2	0	1	.10045	2	2	1	.12545	3	0	1	.15045	3	2	1	.17545
2	0	2	.1009	2	2	2	.1259	3	0	2	.1509	3	2	2	.1759
2	0	3	.10134	2	2	3	.12634	3	0	3	.15134	3	2	3	.17634
2	0	4	.10179	2	2	4	.12679	3	0	4	.15179	3	2	4	.17679
2	0	5	.10224	2	2	5	.12724	3	0	5	.15224	3	2	5	.17724
2	0	6	.10268	2	2	6	.12768	3	0	6	.15268	3	2	6	.17768
2	0	7	.10313	2	2	7	.12813	3	0	7	.15313	3	2	7	.17813
2	0	8	.10358	2	2	8	.12858	3	0	8	.15358	3	2	8	.17858
2	0	9	.10402	2	2	9	.12902	3	0	9	.15402	3	2	9	.17902
2	0	10	.10447	2	2	10	.12947	3	0	10	.15447	3	2	10	.17947
2	0	11	.10492	2	2	11	.12992	3	0	11	.15492	3	2	11	.17992
2	0	12	.10536	2	2	12	.13036	3	0	12	.15536	3	2	12	.18036
2	0	13	.10581	2	2	13	.13081	3	0	13	.15581	3	2	13	.18081
2	0	14	.10625	2	2	14	.13125	3	0	14	.15625	3	2	14	.18125
2	0	15	.1067	2	2	15	.1317	3	0	15	.1567	3	2	15	.1817
2	0	16	.10715	2	2	16	.13215	3	0	16	.15715	3	2	16	.18215
2	0	17	.10759	2	2	17	.13259	3	0	17	.15759	3	2	17	.18259
2	0	18	.10804	2	2	18	.13304	3	0	18	.15804	3	2	18	.18304
2	0	19	.10849	2	2	19	.13349	3	0	19	.15849	3	2	19	.18349
2	0	20	.10893	2	2	20	.13393	3	0	20	.15893	3	2	20	.18393
2	0	21	.10938	2	2	21	.13438	3	0	21	.15938	3	2	21	.18438
2	0	22	.10983	2	2	22	.13483	3	0	22	.15983	3	2	22	.18483
2	0	23	.11027	2	2	23	.13527	3	0	23	.16027	3	2	23	.18527
2	0	24	.11072	2	2	24	.13572	3	0	24	.16072	3	2	24	.18572
2	0	25	.11117	2	2	25	.13617	3	0	25	.16117	3	2	25	.18617
2	0	26	.11161	2	2	26	.13661	3	0	26	.16161	3	2	26	.18661
2	0	27	.11206	2	2	27	.13706	3	0	27	.16206	3	2	27	.18706
2	1	0	.1125	2	3	0	.1375	3	1	0	.1625	3	3	0	.1875
2	1	1	.11295	2	3	1	.13795	3	1	1	.16295	3	3	1	.18795
2	1	2	.1134	2	3	2	.1384	3	1	2	.1634	3	3	2	.1884
2	1	3	.11384	2	3	3	.13884	3	1	3	.16384	3	3	3	.18884
2	1	4	.11429	2	3	4	.13929	3	1	4	.16429	3	3	4	.18929
2	1	5	.11474	2	3	5	.13974	3	1	5	.16474	3	3	5	.18974
2	1	6	.11518	2	3	6	.14018	3	1	6	.16518	3	3	6	.19018
2	1	7	.11563	2	3	7	.14063	3	1	7	.16563	3	3	7	.19063
2	1	8	.11608	2	3	8	.14108	3	1	8	.16608	3	3	8	.19108
2	1	9	.11652	2	3	9	.14152	3	1	9	.16652	3	3	9	.19152
2	1	10	.11697	2	3	10	.14197	3	1	10	.16697	3	3	10	.19197
2	1	11	.11742	2	3	11	.14242	3	1	11	.16742	3	3	11	.19242
2	1	12	.11786	2	3	12	.14286	3	1	12	.16786	3	3	12	.19286
2	1	13	.11831	2	3	13	.14331	3	1	13	.16831	3	3	13	.19331
2	1	14	.11875	2	3	14	.14375	3	1	14	.16875	3	3	14	.19375
2	1	15	.1192	2	3	15	.1442	3	1	15	.1692	3	3	15	.1942
2	1	16	.11965	2	3	16	.14465	3	1	16	.16965	3	3	16	.19465
2	1	17	.12009	2	3	17	.14509	3	1	17	.17009	3	3	17	.19509
2	1	18	.12054	2	3	18	.14554	3	1	18	.17054	3	3	18	.19554
2	1	19	.12099	2	3	19	.14599	3	1	19	.17099	3	3	19	.19599
2	1	20	.12143	2	3	20	.14643	3	1	20	.17143	3	3	20	.19643
2	1	21	.12188	2	3	21	.14688	3	1	21	.17188	3	3	21	.19688
2	1	22	.12233	2	3	22	.14733	3	1	22	.17233	3	3	22	.19733
2	1	23	.12277	2	3	23	.14777	3	1	23	.17277	3	3	23	.19777
2	1	24	.12322	2	3	24	.14822	3	1	24	.17322	3	3	24	.19822
2	1	25	.12367	2	3	25	.14867	3	1	25	.17367	3	3	25	.19867
2	1	26	.12411	2	3	26	.14911	3	1	26	.17411	3	3	26	.19911
2	1	27	.12456	2	3	27	.14956	3	1	27	.17456	3	3	27	.19956
2	2	0	.125	3	0	0	.15	3	2	0	.175	4	0	0	.2

## TON WEIGHT.

cwt. qrs. lbs. decim. grs. lb.  
[4 : 0 : 1 to 6 : 0 : 0

Cwt.	Qrs.	Lbs.	Decimals.	Cwt.	Qrs.	Lbs.	Decimals.	Cwt.	Qrs.	Lbs.	Decimals.	Cwt.	Qrs.	Lbs.	Decimals.
4	0	1	.20015	4	2	1	.22545	5	0	1	.25045	5	2	1	.27545
4	0	2	.2009	4	2	2	.2259	5	0	2	.2509	5	2	2	.2759
4	0	3	.20134	4	2	3	.22634	5	0	3	.25134	5	2	3	.27634
4	0	4	.20179	4	2	4	.22679	5	0	4	.25179	5	2	4	.27679
4	0	5	.20224	4	2	5	.22724	5	0	5	.25224	5	2	5	.27724
4	0	6	.20268	4	2	6	.22768	5	0	6	.25268	5	2	6	.27768
4	0	7	.20313	4	2	7	.22813	5	0	7	.25313	5	2	7	.27813
4	0	8	.20358	4	2	8	.22858	5	0	8	.25358	5	2	8	.27858
4	0	9	.20402	4	2	9	.22902	5	0	9	.25402	5	2	9	.27902
4	0	10	.20447	4	2	10	.22947	5	0	10	.25447	5	2	10	.27947
4	0	11	.20492	4	2	11	.22992	5	0	11	.25492	5	2	11	.27992
4	0	12	.20536	4	2	12	.23036	5	0	12	.25536	5	2	12	.28036
4	0	13	.20581	4	2	13	.23081	5	0	13	.25581	5	2	13	.28081
4	0	14	.20625	4	2	14	.23125	5	0	14	.25625	5	2	14	.28125
4	0	15	.2067	4	2	15	.2317	5	0	15	.2567	5	2	15	.2817
4	0	16	.20715	4	2	16	.23215	5	0	16	.25715	5	2	16	.28215
4	0	17	.20759	4	2	17	.23259	5	0	17	.25759	5	2	17	.28259
4	0	18	.20804	4	2	18	.23304	5	0	18	.25804	5	2	18	.28304
4	0	19	.20849	4	2	19	.23349	5	0	19	.25849	5	2	19	.28349
4	0	20	.20893	4	2	20	.23393	5	0	20	.25893	5	2	20	.28393
4	0	21	.20938	4	2	21	.23438	5	0	21	.25938	5	2	21	.28438
4	0	22	.20983	4	2	22	.23483	5	0	22	.25983	5	2	22	.28483
4	0	23	.21027	4	2	23	.23527	5	0	23	.26027	5	2	23	.28527
4	0	24	.21072	4	2	24	.23572	5	0	24	.26072	5	2	24	.28572
4	0	25	.21117	4	2	25	.23617	5	0	25	.26117	5	2	25	.28617
4	0	26	.21161	4	2	26	.23661	5	0	26	.26161	5	2	26	.28661
4	0	27	.21206	4	2	27	.23706	5	0	27	.26206	5	2	27	.28706
4	1	0	.2125	4	3	0	.2375	5	1	0	.2625	5	3	0	.2875
4	1	1	.21295	4	3	1	.23795	5	1	1	.26295	5	3	1	.28795
4	1	2	.2134	4	3	2	.2384	5	1	2	.2634	5	3	2	.2884
4	1	3	.21384	4	3	3	.23884	5	1	3	.26384	5	3	3	.28884
4	1	4	.21429	4	3	4	.23929	5	1	4	.26429	5	3	4	.28929
4	1	5	.21474	4	3	5	.23974	5	1	5	.26474	5	3	5	.28974
4	1	6	.21518	4	3	6	.24018	5	1	6	.26518	5	3	6	.29018
4	1	7	.21563	4	3	7	.24063	5	1	7	.26563	5	3	7	.29063
4	1	8	.21608	4	3	8	.24108	5	1	8	.26608	5	3	8	.29108
4	1	9	.21652	4	3	9	.24152	5	1	9	.26652	5	3	9	.29152
4	1	10	.21697	4	3	10	.24197	5	1	10	.26697	5	3	10	.29197
4	1	11	.21742	4	3	11	.24242	5	1	11	.26742	5	3	11	.29242
4	1	12	.21786	4	3	12	.24286	5	1	12	.26786	5	3	12	.29286
4	1	13	.21831	4	3	13	.24331	5	1	13	.26831	5	3	13	.29331
4	1	14	.21875	4	3	14	.24375	5	1	14	.26875	5	3	14	.29375
4	1	15	.2192	4	3	15	.2442	5	1	15	.2692	5	3	15	.2942
4	1	16	.21965	4	3	16	.24465	5	1	16	.26965	5	3	16	.29465
4	1	17	.22009	4	3	17	.24509	5	1	17	.27009	5	3	17	.29509
4	1	18	.22054	4	3	18	.24554	5	1	18	.27054	5	3	18	.29554
4	1	19	.22099	4	3	19	.24599	5	1	19	.27099	5	3	19	.29599
4	1	20	.22143	4	3	20	.24643	5	1	20	.27143	5	3	20	.29643
4	1	21	.22188	4	3	21	.24688	5	1	21	.27188	5	3	21	.29688
4	1	22	.22233	4	3	22	.24733	5	1	22	.27233	5	3	22	.29733
4	1	23	.22277	4	3	23	.24777	5	1	23	.27277	5	3	23	.29777
4	1	24	.22322	4	3	24	.24822	5	1	24	.27322	5	3	24	.29822
4	1	25	.22367	4	3	25	.24867	5	1	25	.27367	5	3	25	.29867
4	1	26	.22411	4	3	26	.24911	5	1	26	.27411	5	3	26	.29911
4	1	27	.22456	4	3	27	.24956	5	1	27	.27456	5	3	27	.29956
4	2	0	.225	5	0	0	.25	5	2	0	.275	6	0	0	.3



6:0:1 to 8:0:0]

## TON WEIGHT.

Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.
6	0	1	.30045	6	2	1	.32545	7	0	1	.35045	7	2	1	.37545
6	0	2	.30090	6	2	2	.32590	7	0	2	.35090	7	2	2	.37590
6	0	3	.30134	6	2	3	.32634	7	0	3	.35134	7	2	3	.37634
6	0	4	.30179	6	2	4	.32679	7	0	4	.35179	7	2	4	.37679
6	0	5	.30224	6	2	5	.32724	7	0	5	.35224	7	2	5	.37724
6	0	6	.30268	6	2	6	.32768	7	0	6	.35268	7	2	6	.37768
6	0	7	.30313	6	2	7	.32813	7	0	7	.35313	7	2	7	.37813
6	0	8	.30358	6	2	8	.32858	7	0	8	.35358	7	2	8	.37858
6	0	9	.30402	6	2	9	.32902	7	0	9	.35402	7	2	9	.37902
6	0	10	.30447	6	2	10	.32947	7	0	10	.35447	7	2	10	.37947
6	0	11	.30492	6	2	11	.32992	7	0	11	.35492	7	2	11	.37992
6	0	12	.30536	6	2	12	.33036	7	0	12	.35536	7	2	12	.38036
6	0	13	.30581	6	2	13	.33081	7	0	13	.35581	7	2	13	.38081
6	0	14	.30625	6	2	14	.33125	7	0	14	.35625	7	2	14	.38125
6	0	15	.30670	6	2	15	.33170	7	0	15	.35670	7	2	15	.38170
6	0	16	.30715	6	2	16	.33215	7	0	16	.35715	7	2	16	.38215
6	0	17	.30759	6	2	17	.33259	7	0	17	.35759	7	2	17	.38259
6	0	18	.30804	6	2	18	.33304	7	0	18	.35804	7	2	18	.38304
6	0	19	.30849	6	2	19	.33349	7	0	19	.35849	7	2	19	.38349
6	0	20	.30893	6	2	20	.33393	7	0	20	.35893	7	2	20	.38393
6	0	21	.30938	6	2	21	.33438	7	0	21	.35938	7	2	21	.38438
6	0	22	.30983	6	2	22	.33483	7	0	22	.35983	7	2	22	.38483
6	0	23	.31027	6	2	23	.33527	7	0	23	.36027	7	2	23	.38527
6	0	24	.31072	6	2	24	.33572	7	0	24	.36072	7	2	24	.38572
6	0	25	.31117	6	2	25	.33617	7	0	25	.36117	7	2	25	.38617
6	0	26	.31161	6	2	26	.33661	7	0	26	.36161	7	2	26	.38661
6	0	27	.31206	6	2	27	.33706	7	0	27	.36206	7	2	27	.38706
6	1	0	.31250	6	3	0	.33750	7	1	0	.36250	7	3	0	.38750
6	1	1	.31295	6	3	1	.33795	7	1	1	.36295	7	3	1	.38795
6	1	2	.31340	6	3	2	.33840	7	1	2	.36340	7	3	2	.38840
6	1	3	.31384	6	3	3	.33884	7	1	3	.36384	7	3	3	.38884
6	1	4	.31429	6	3	4	.33929	7	1	4	.36429	7	3	4	.38929
6	1	5	.31474	6	3	5	.33974	7	1	5	.36474	7	3	5	.38974
6	1	6	.31518	6	3	6	.34018	7	1	6	.36518	7	3	6	.39018
6	1	7	.31563	6	3	7	.34063	7	1	7	.36563	7	3	7	.39063
6	1	8	.31608	6	3	8	.34108	7	1	8	.36608	7	3	8	.39108
6	1	9	.31652	6	3	9	.34152	7	1	9	.36652	7	3	9	.39152
6	1	10	.31697	6	3	10	.34197	7	1	10	.36697	7	3	10	.39197
6	1	11	.31742	6	3	11	.34242	7	1	11	.36742	7	3	11	.39242
6	1	12	.31786	6	3	12	.34286	7	1	12	.36786	7	3	12	.39286
6	1	13	.31831	6	3	13	.34331	7	1	13	.36831	7	3	13	.39331
6	1	14	.31875	6	3	14	.34375	7	1	14	.36875	7	3	14	.39375
6	1	15	.31920	6	3	15	.34420	7	1	15	.36920	7	3	15	.39420
6	1	16	.31964	6	3	16	.34464	7	1	16	.36964	7	3	16	.39464
6	1	17	.32009	6	3	17	.34509	7	1	17	.37009	7	3	17	.39509
6	1	18	.32054	6	3	18	.34554	7	1	18	.37054	7	3	18	.39554
6	1	19	.32099	6	3	19	.34599	7	1	19	.37099	7	3	19	.39599
6	1	20	.32143	6	3	20	.34643	7	1	20	.37143	7	3	20	.39643
6	1	21	.32188	6	3	21	.34688	7	1	21	.37188	7	3	21	.39688
6	1	22	.32233	6	3	22	.34733	7	1	22	.37233	7	3	22	.39733
6	1	23	.32277	6	3	23	.34777	7	1	23	.37277	7	3	23	.39777
6	1	24	.32322	6	3	24	.34822	7	1	24	.37322	7	3	24	.39822
6	1	25	.32367	6	3	25	.34867	7	1	25	.37367	7	3	25	.39867
6	1	26	.32411	6	3	26	.34911	7	1	26	.37411	7	3	26	.39911
6	1	27	.32456	6	3	27	.34956	7	1	27	.37456	7	3	27	.39956
6	2	0	.32500	7	0	0	.35000	7	2	0	.37500	8	0	0	.40000

# TON WEIGHT.

[8 : 0 : 1 to 10 : 0 : 0

Cnts.	Qrs.	Lbs.	Decimals.	Cnts.	Qrs.	Lbs.	Decimals.	Cnts.	Qrs.	Lbs.	Decimals.	Cnts.	Qrs.	Lbs.	Decimals.
8	0	1	.40015	8	2	1	.42545	9	0	1	.45015	9	2	1	.47515
8	0	2	.4009	8	2	2	.4259	9	0	2	.4509	9	2	2	.4759
8	0	3	.40134	8	2	3	.42634	9	0	3	.45134	9	2	3	.47634
8	0	4	.40179	8	2	4	.42679	9	0	4	.45179	9	2	4	.47679
8	0	5	.40224	8	2	5	.42724	9	0	5	.45224	9	2	5	.47724
8	0	6	.40268	8	2	6	.42768	9	0	6	.45268	9	2	6	.47768
8	0	7	.40313	8	2	7	.42813	9	0	7	.45313	9	2	7	.47813
8	0	8	.40358	8	2	8	.42858	9	0	8	.45358	9	2	8	.47858
8	0	9	.40402	8	2	9	.42902	9	0	9	.45402	9	2	9	.47902
8	0	10	.40447	8	2	10	.42947	9	0	10	.45447	9	2	10	.47947
8	0	11	.40492	8	2	11	.42992	9	0	11	.45492	9	2	11	.47992
8	0	12	.40536	8	2	12	.43036	9	0	12	.45536	9	2	12	.48036
8	0	13	.40581	8	2	13	.43081	9	0	13	.45581	9	2	13	.48081
8	0	14	.40625	8	2	14	.43125	9	0	14	.45625	9	2	14	.48125
8	0	15	.4067	8	2	15	.4317	9	0	15	.4567	9	2	15	.4817
8	0	16	.40715	8	2	16	.43215	9	0	16	.45715	9	2	16	.48215
8	0	17	.40759	8	2	17	.43259	9	0	17	.45759	9	2	17	.48259
8	0	18	.40804	8	2	18	.43304	9	0	18	.45804	9	2	18	.48304
8	0	19	.40849	8	2	19	.43349	9	0	19	.45849	9	2	19	.48349
8	0	20	.40893	8	2	20	.43393	9	0	20	.45893	9	2	20	.48393
8	0	21	.40938	8	2	21	.43438	9	0	21	.45938	9	2	21	.48438
8	0	22	.40983	8	2	22	.43483	9	0	22	.45983	9	2	22	.48483
8	0	23	.41027	8	2	23	.43527	9	0	23	.46027	9	2	23	.48527
8	0	24	.41072	8	2	24	.43572	9	0	24	.46072	9	2	24	.48572
8	0	25	.41117	8	2	25	.43617	9	0	25	.46117	9	2	25	.48617
8	0	26	.41161	8	2	26	.43661	9	0	26	.46161	9	2	26	.48661
8	0	27	.41206	8	2	27	.43706	9	0	27	.46206	9	2	27	.48706
8	1	0	.4125	8	3	0	.4375	9	1	0	.4625	9	3	0	.4875
8	1	1	.41295	8	3	1	.43795	9	1	1	.46295	9	3	1	.48795
8	1	2	.4134	8	3	2	.4384	9	1	2	.4634	9	3	2	.4884
8	1	3	.41384	8	3	3	.43884	9	1	3	.46384	9	3	3	.48884
8	1	4	.41429	8	3	4	.43929	9	1	4	.46429	9	3	4	.48929
8	1	5	.41474	8	3	5	.43974	9	1	5	.46474	9	3	5	.48974
8	1	6	.41518	8	3	6	.44018	9	1	6	.46518	9	3	6	.49018
8	1	7	.41563	8	3	7	.44063	9	1	7	.46563	9	3	7	.49063
8	1	8	.41608	8	3	8	.44108	9	1	8	.46608	9	3	8	.49108
8	1	9	.41652	8	3	9	.44152	9	1	9	.46652	9	3	9	.49152
8	1	10	.41697	8	3	10	.44197	9	1	10	.46697	9	3	10	.49197
8	1	11	.41742	8	3	11	.44242	9	1	11	.46742	9	3	11	.49242
8	1	12	.41786	8	3	12	.44286	9	1	12	.46786	9	3	12	.49286
8	1	13	.41831	8	3	13	.44331	9	1	13	.46831	9	3	13	.49331
8	1	14	.41875	8	3	14	.44375	9	1	14	.46875	9	3	14	.49375
8	1	15	.4192	8	3	15	.4442	9	1	15	.4692	9	3	15	.4942
8	1	16	.41965	8	3	16	.44465	9	1	16	.46965	9	3	16	.49465
8	1	17	.42009	8	3	17	.44509	9	1	17	.47009	9	3	17	.49509
8	1	18	.42054	8	3	18	.44554	9	1	18	.47054	9	3	18	.49554
8	1	19	.42099	8	3	19	.44599	9	1	19	.47099	9	3	19	.49599
8	1	20	.42143	8	3	20	.44643	9	1	20	.47143	9	3	20	.49643
8	1	21	.42188	8	3	21	.44688	9	1	21	.47188	9	3	21	.49688
8	1	22	.42233	8	3	22	.44733	9	1	22	.47233	9	3	22	.49733
8	1	23	.42277	8	3	23	.44777	9	1	23	.47277	9	3	23	.49777
8	1	24	.42322	8	3	24	.44822	9	1	24	.47322	9	3	24	.49822
8	1	25	.42367	8	3	25	.44867	9	1	25	.47367	9	3	25	.49867
8	1	26	.42411	8	3	26	.44911	9	1	26	.47411	9	3	26	.49911
8	1	27	.42456	8	3	27	.44956	9	1	27	.47456	9	3	27	.49956
8	2	0	.425	9	0	0	.45	9	2	0	.475	10	0	0	.5

10 : 0 : 1 to 12 : 0 : 0]

## TON WEIGHT.

Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.
10	0	1	.50045	10	2	1	.52545	11	0	1	.55045	11	2	1	.57545
10	0	2	.5009	10	2	2	.5259	11	0	2	.5509	11	2	2	.5759
10	0	3	.50134	10	2	3	.52634	11	0	3	.55134	11	2	3	.57634
10	0	4	.50179	10	2	4	.52679	11	0	4	.55179	11	2	4	.57679
10	0	5	.50224	10	2	5	.52724	11	0	5	.55224	11	2	5	.57724
10	0	6	.50268	10	2	6	.52768	11	0	6	.55268	11	2	6	.57768
10	0	7	.50313	10	2	7	.52813	11	0	7	.55313	11	2	7	.57813
10	0	8	.50358	10	2	8	.52858	11	0	8	.55358	11	2	8	.57858
10	0	9	.50402	10	2	9	.52902	11	0	9	.55402	11	2	9	.57902
10	0	10	.50447	10	2	10	.52947	11	0	10	.55447	11	2	10	.57947
10	0	11	.50492	10	2	11	.52992	11	0	11	.55492	11	2	11	.57992
10	0	12	.50536	10	2	12	.53036	11	0	12	.55536	11	2	12	.58036
10	0	13	.50581	10	2	13	.53081	11	0	13	.55581	11	2	13	.58081
10	0	14	.50625	10	2	14	.53125	11	0	14	.55625	11	2	14	.58125
10	0	15	.5067	10	2	15	.5317	11	0	15	.5567	11	2	15	.5817
10	0	16	.50715	10	2	16	.53215	11	0	16	.55715	11	2	16	.58215
10	0	17	.50759	10	2	17	.53259	11	0	17	.55759	11	2	17	.58259
10	0	18	.50804	10	2	18	.53304	11	0	18	.55804	11	2	18	.58304
10	0	19	.50849	10	2	19	.53349	11	0	19	.55849	11	2	19	.58349
10	0	20	.50893	10	2	20	.53393	11	0	20	.55893	11	2	20	.58393
10	0	21	.50938	10	2	21	.53438	11	0	21	.55938	11	2	21	.58438
10	0	22	.50983	10	2	22	.53483	11	0	22	.55983	11	2	22	.58483
10	0	23	.51027	10	2	23	.53527	11	0	23	.56027	11	2	23	.58527
10	0	24	.51072	10	2	24	.53572	11	0	24	.56072	11	2	24	.58572
10	0	25	.51117	10	2	25	.53617	11	0	25	.56117	11	2	25	.58617
10	0	26	.51161	10	2	26	.53661	11	0	26	.56161	11	2	26	.58661
10	0	27	.51206	10	2	27	.53706	11	0	27	.56206	11	2	27	.58706
10	1	0	.5125	10	3	0	.5375	11	1	0	.5625	11	3	0	.5875
10	1	1	.51295	10	3	1	.53795	11	1	1	.56295	11	3	1	.58795
10	1	2	.5134	10	3	2	.5384	11	1	2	.5634	11	3	2	.5884
10	1	3	.51384	10	3	3	.53884	11	1	3	.56384	11	3	3	.58884
10	1	4	.51429	10	3	4	.53929	11	1	4	.56429	11	3	4	.58929
10	1	5	.51474	10	3	5	.53974	11	1	5	.56474	11	3	5	.58974
10	1	6	.51518	10	3	6	.54018	11	1	6	.56518	11	3	6	.59018
10	1	7	.51563	10	3	7	.54063	11	1	7	.56563	11	3	7	.59063
10	1	8	.51608	10	3	8	.54108	11	1	8	.56608	11	3	8	.59108
10	1	9	.51652	10	3	9	.54152	11	1	9	.56652	11	3	9	.59152
10	1	10	.51697	10	3	10	.54197	11	1	10	.56697	11	3	10	.59197
10	1	11	.51742	10	3	11	.54242	11	1	11	.56742	11	3	11	.59242
10	1	12	.51786	10	3	12	.54286	11	1	12	.56786	11	3	12	.59286
10	1	13	.51831	10	3	13	.54331	11	1	13	.56831	11	3	13	.59331
10	1	14	.51875	10	3	14	.54375	11	1	14	.56875	11	3	14	.59375
10	1	15	.5192	10	3	15	.5442	11	1	15	.5692	11	3	15	.5942
10	1	16	.5196	10	3	16	.54465	11	1	16	.56965	11	3	16	.59465
10	1	17	.52009	10	3	17	.54509	11	1	17	.57009	11	3	17	.59509
10	1	18	.52054	10	3	18	.54554	11	1	18	.57054	11	3	18	.59554
10	1	19	.52099	10	3	19	.54599	11	1	19	.57099	11	3	19	.59599
10	1	20	.52143	10	3	20	.54643	11	1	20	.57143	11	3	20	.59643
10	1	21	.52188	10	3	21	.54688	11	1	21	.57188	11	3	21	.59688
10	1	22	.52233	10	3	22	.54733	11	1	22	.57233	11	3	22	.59733
10	1	23	.52277	10	3	23	.54777	11	1	23	.57277	11	3	23	.59777
10	1	24	.52322	10	3	24	.54822	11	1	24	.57322	11	3	24	.59822
10	1	25	.52367	10	3	25	.54867	11	1	25	.57367	11	3	25	.59867
10	1	26	.52411	10	3	26	.54911	11	1	26	.57411	11	3	26	.59911
10	1	27	.52456	10	3	27	.54956	11	1	27	.57456	11	3	27	.59956
10	2	0	.525	11	0		.55	11	2	0	.575	12	0	0	.6

# TON WEIGHT.

[12 : 0 : 1 to 14 : 0 : 0

Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.
12	0	1	.60045	12	2	1	.62545	13	0	1	.65045	13	2	1	.67545
12	0	2	.6009	12	2	2	.6259	13	0	2	.6509	13	2	2	.6759
12	0	3	.60134	12	2	3	.62634	13	0	3	.65134	13	2	3	.67634
12	0	4	.60179	12	2	4	.62679	13	0	4	.65179	13	2	4	.67679
12	0	5	.60224	12	2	5	.62724	13	0	5	.65224	13	2	5	.67724
12	0	6	.60268	12	2	6	.62768	13	0	6	.65268	13	2	6	.67768
12	0	7	.60313	12	2	7	.62813	13	0	7	.65313	13	2	7	.67813
12	0	8	.60358	12	2	8	.62858	13	0	8	.65358	13	2	8	.67858
12	0	9	.60402	12	2	9	.62902	13	0	9	.65402	13	2	9	.67902
12	0	10	.60447	12	2	10	.62947	13	0	10	.65447	13	2	10	.67947
12	0	11	.60492	12	2	11	.62992	13	0	11	.65492	13	2	11	.67992
12	0	12	.60536	12	2	12	.63036	13	0	12	.65536	13	2	12	.68036
12	0	13	.60581	12	2	13	.63081	13	0	13	.65581	13	2	13	.68081
12	0	14	.60625	12	2	14	.63125	13	0	14	.65625	13	2	14	.68125
12	0	15	.6067	12	2	15	.6317	13	0	15	.6567	13	2	15	.6817
12	0	16	.60715	12	2	16	.63215	13	0	16	.65715	13	2	16	.68215
12	0	17	.60759	12	2	17	.63259	13	0	17	.65759	13	2	17	.68259
12	0	18	.60804	12	2	18	.63304	13	0	18	.65804	13	2	18	.68304
12	0	19	.60849	12	2	19	.63349	13	0	19	.65849	13	2	19	.68349
12	0	20	.60893	12	2	20	.63393	13	0	20	.65893	13	2	20	.68393
12	0	21	.60938	12	2	21	.63438	13	0	21	.65938	13	2	21	.68438
12	0	22	.60983	12	2	22	.63483	13	0	22	.65983	13	2	22	.68483
12	0	23	.61027	12	2	23	.63527	13	0	23	.66027	13	2	23	.68527
12	0	24	.61072	12	2	24	.63572	13	0	24	.66072	13	2	24	.68572
12	0	25	.61117	12	2	25	.63617	13	0	25	.66117	13	2	25	.68617
12	0	26	.61161	12	2	26	.63661	13	0	26	.66161	13	2	26	.68661
12	0	27	.61206	12	2	27	.63706	13	0	27	.66206	13	2	27	.68706
12	1	0	.6125	12	3	0	.6375	13	1	0	.6625	13	3	0	.6875
12	1	1	.61295	12	3	1	.63795	13	1	1	.66295	13	3	1	.68795
12	1	2	.6134	12	3	2	.6384	13	1	2	.6634	13	3	2	.6884
12	1	3	.61384	12	3	3	.63884	13	1	3	.66384	13	3	3	.68884
12	1	4	.61429	12	3	4	.63929	13	1	4	.66429	13	3	4	.68929
12	1	5	.61474	12	3	5	.63974	13	1	5	.66474	13	3	5	.68974
12	1	6	.61518	12	3	6	.64018	13	1	6	.66518	13	3	6	.69018
12	1	7	.61563	12	3	7	.64063	13	1	7	.66563	13	3	7	.69063
12	1	8	.61608	12	3	8	.64108	13	1	8	.66608	13	3	8	.69108
12	1	9	.61652	12	3	9	.64152	13	1	9	.66652	13	3	9	.69152
12	1	10	.61697	12	3	10	.64197	13	1	10	.66697	13	3	10	.69197
12	1	11	.61742	12	3	11	.64242	13	1	11	.66742	13	3	11	.69242
12	1	12	.61786	12	3	12	.64286	13	1	12	.66786	13	3	12	.69286
12	1	13	.61831	12	3	13	.64331	13	1	13	.66831	13	3	13	.69331
12	1	14	.61875	12	3	14	.64375	13	1	14	.66875	13	3	14	.69375
12	1	15	.6192	12	3	15	.6442	13	1	15	.6692	13	3	15	.6942
12	1	16	.61965	12	3	16	.64465	13	1	16	.66965	13	3	16	.69465
12	1	17	.62009	12	3	17	.64509	13	1	17	.67009	13	3	17	.69509
12	1	18	.62054	12	3	18	.64554	13	1	18	.67054	13	3	18	.69554
12	1	19	.62099	12	3	19	.64599	13	1	19	.67099	13	3	19	.69599
12	1	20	.62143	12	3	20	.64643	13	1	20	.67143	13	3	20	.69643
12	1	21	.62188	12	3	21	.64688	13	1	21	.67188	13	3	21	.69688
12	1	22	.62233	12	3	22	.64733	13	1	22	.67233	13	3	22	.69733
12	1	23	.62277	12	3	23	.64777	13	1	23	.67277	13	3	23	.69777
12	1	24	.62322	12	3	24	.64822	13	1	24	.67322	13	3	24	.69822
12	1	25	.62367	12	3	25	.64867	13	1	25	.67367	13	3	25	.69867
12	1	26	.62411	12	3	26	.64911	13	1	26	.67411	13	3	26	.69911
12	1	27	.62456	12	3	27	.64956	13	1	27	.67456	13	3	27	.69956
12	2	0	.625	13	0	0	.65	13	2	0	.675	14	0	0	.7

14 : 0 : 1 to 16 : 0 : 0]

## TON WEIGHT.

Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.
14	0	1	.70045	14	2	1	.72545	15	0	1	.75045	15	2	1	.77545
14	0	2	.7009	14	2	2	.7259	15	0	2	.7509	15	2	2	.7759
14	0	3	.70134	14	2	3	.72634	15	0	3	.75134	15	2	3	.77634
14	0	4	.70179	14	2	4	.72679	15	0	4	.75179	15	2	4	.77679
14	0	5	.70224	14	2	5	.72724	15	0	5	.75224	15	2	5	.77724
14	0	6	.70268	14	2	6	.72768	15	0	6	.75268	15	2	6	.77768
14	0	7	.70313	14	2	7	.72813	15	0	7	.75313	15	2	7	.77813
14	0	8	.70358	14	2	8	.72858	15	0	8	.75358	15	2	8	.77858
14	0	9	.70402	14	2	9	.72902	15	0	9	.75402	15	2	9	.77902
14	0	10	.70447	14	2	10	.72947	15	0	10	.75447	15	2	10	.77947
14	0	11	.70492	14	2	11	.72992	15	0	11	.75492	15	2	11	.77992
14	0	12	.70536	14	2	12	.73036	15	0	12	.75536	15	2	12	.78036
14	0	13	.70581	14	2	13	.73081	15	0	13	.75581	15	2	13	.78081
14	0	14	.70625	14	2	14	.73125	15	0	14	.75625	15	2	14	.78125
14	0	15	.7067	14	2	15	.7317	15	0	15	.7567	15	2	15	.7817
14	0	16	.70715	14	2	16	.73215	15	0	16	.75715	15	2	16	.78215
14	0	17	.70759	14	2	17	.73259	15	0	17	.75759	15	2	17	.78259
14	0	18	.70804	14	2	18	.73304	15	0	18	.75804	15	2	18	.78304
14	0	19	.70849	14	2	19	.73349	15	0	19	.75849	15	2	19	.78349
14	0	20	.70893	14	2	20	.73393	15	0	20	.75893	15	2	20	.78393
14	0	21	.70938	14	2	21	.73438	15	0	21	.75938	15	2	21	.78438
14	0	22	.70983	14	2	22	.73483	15	0	22	.75983	15	2	22	.78483
14	0	23	.71027	14	2	23	.73527	15	0	23	.76027	15	2	23	.78527
14	0	24	.71072	14	2	24	.73572	15	0	24	.76072	15	2	24	.78572
14	0	25	.71117	14	2	25	.73617	15	0	25	.76117	15	2	25	.78617
14	0	26	.71161	14	2	26	.73661	15	0	26	.76161	15	2	26	.78661
14	0	27	.71206	14	2	27	.73706	15	0	27	.76206	15	2	27	.78706
14	1	0	.7125	14	3	0	.7375	15	1	0	.7625	15	3	0	.7875
14	1	1	.71295	14	3	1	.73795	15	1	1	.76295	15	3	1	.78795
14	1	2	.7134	14	3	2	.7384	15	1	2	.7634	15	3	2	.7884
14	1	3	.71384	14	3	3	.73884	15	1	3	.76384	15	3	3	.78884
14	1	4	.71429	14	3	4	.73929	15	1	4	.76429	15	3	4	.78929
14	1	5	.71474	14	3	5	.73974	15	1	5	.76474	15	3	5	.78974
14	1	6	.71518	14	3	6	.74018	15	1	6	.76518	15	3	6	.79018
14	1	7	.71563	14	3	7	.74063	15	1	7	.76563	15	3	7	.79063
14	1	8	.71608	14	3	8	.74108	15	1	8	.76608	15	3	8	.79108
14	1	9	.71652	14	3	9	.74152	15	1	9	.76652	15	3	9	.79152
14	1	10	.71697	14	3	10	.74197	15	1	10	.76697	15	3	10	.79197
14	1	11	.71742	14	3	11	.74242	15	1	11	.76742	15	3	11	.79242
14	1	12	.71786	14	3	12	.74286	15	1	12	.76786	15	3	12	.79286
14	1	13	.71831	14	3	13	.74331	15	1	13	.76831	15	3	13	.79331
14	1	14	.71875	14	3	14	.74375	15	1	14	.76875	15	3	14	.79375
14	1	15	.7192	14	3	15	.7442	15	1	15	.7692	15	3	15	.7942
14	1	16	.71965	14	3	16	.74465	15	1	16	.76965	15	3	16	.79465
14	1	17	.72009	14	3	17	.74509	15	1	17	.77009	15	3	17	.79509
14	1	18	.72054	14	3	18	.74554	15	1	18	.77054	15	3	18	.79554
14	1	19	.72099	14	3	19	.74599	15	1	19	.77099	15	3	19	.79599
14	1	20	.72143	14	3	20	.74643	15	1	20	.77143	15	3	20	.79643
14	1	21	.72188	14	3	21	.74688	15	1	21	.77188	15	3	21	.79688
14	1	22	.72233	14	3	22	.74733	15	1	22	.77233	15	3	22	.79733
14	1	23	.72277	14	3	23	.74777	15	1	23	.77277	15	3	23	.79777
14	1	24	.72322	14	3	24	.74822	15	1	24	.77322	15	3	24	.79822
14	1	25	.72367	14	3	25	.74867	15	1	25	.77367	15	3	25	.79867
14	1	26	.72411	14	3	26	.74911	15	1	26	.77411	15	3	26	.79911
14	1	27	.72456	14	3	27	.74956	15	1	27	.77456	15	3	27	.79956
14	2	0	.725	15	0	0	.75	15	2	0	.775	16	0	0	.8

TON WEIGHT.

[16 : 0 : 1 to 18 : 0 : 0

Cwts.	Qrs.	lbs.	Decimals.	Cwts.	Qrs.	lbs.	Decimals.	Cwts.	Qrs.	lbs.	Decimals.	Cwts.	Qrs.	lbs.	Decimals.
16	0	1	.80045	16	2	1	.82545	17	0	1	.85045	17	2	1	.87545
16	0	2	.8009	16	2	2	.8259	17	0	2	.8509	17	2	2	.8759
16	0	3	.80134	16	2	3	.82634	17	0	3	.85134	17	2	3	.87634
16	0	4	.80179	16	2	4	.82679	17	0	4	.85179	17	2	4	.87679
16	0	5	.80224	16	2	5	.82724	17	0	5	.85224	17	2	5	.87724
16	0	6	.80268	16	2	6	.82768	17	0	6	.85268	17	2	6	.87768
16	0	7	.80313	16	2	7	.82813	17	0	7	.85313	17	2	7	.87813
16	0	8	.80358	16	2	8	.82858	17	0	8	.85358	17	2	8	.87858
16	0	9	.80402	16	2	9	.82902	17	0	9	.85402	17	2	9	.87902
16	0	10	.80447	16	2	10	.82947	17	0	10	.85447	17	2	10	.87947
16	0	11	.80492	16	2	11	.82992	17	0	11	.85492	17	2	11	.87992
16	0	12	.80536	16	2	12	.83036	17	0	12	.85536	17	2	12	.88036
16	0	13	.80581	16	2	13	.83081	17	0	13	.85581	17	2	13	.88081
16	0	14	.80625	16	2	14	.83125	17	0	14	.85625	17	2	14	.88125
16	0	15	.8067	16	2	15	.8317	17	0	15	.8567	17	2	15	.8817
16	0	16	.80715	16	2	16	.83215	17	0	16	.85715	17	2	16	.88215
16	0	17	.80759	16	2	17	.83259	17	0	17	.85759	17	2	17	.88259
16	0	18	.80804	16	2	18	.83304	17	0	18	.85804	17	2	18	.88304
16	0	19	.80849	16	2	19	.83349	17	0	19	.85849	17	2	19	.88349
16	0	20	.80893	16	2	20	.83393	17	0	20	.85893	17	2	20	.88393
16	0	21	.80938	16	2	21	.83438	17	0	21	.85938	17	2	21	.88438
16	0	22	.80983	16	2	22	.83483	17	0	22	.85983	17	2	22	.88483
16	0	23	.81027	16	2	23	.83527	17	0	23	.86027	17	2	23	.88527
16	0	24	.81072	16	2	24	.83572	17	0	24	.86072	17	2	24	.88572
16	0	25	.81117	16	2	25	.83617	17	0	25	.86117	17	2	25	.88617
16	0	26	.81161	16	2	26	.83661	17	0	26	.86161	17	2	26	.88661
16	0	27	.81206	16	2	27	.83706	17	0	27	.86206	17	2	27	.88706
16	1	0	.8125	16	3	0	.8375	17	1	0	.8625	17	3	0	.8875
16	1	1	.81295	16	3	1	.83795	17	1	1	.86295	17	3	1	.88795
16	1	2	.8134	16	3	2	.8384	17	1	2	.8634	17	3	2	.8884
16	1	3	.81384	16	3	3	.83884	17	1	3	.86384	17	3	3	.88884
16	1	4	.81429	16	3	4	.83929	17	1	4	.86429	17	3	4	.88929
16	1	5	.81474	16	3	5	.83974	17	1	5	.86474	17	3	5	.88974
16	1	6	.81518	16	3	6	.84018	17	1	6	.86518	17	3	6	.89018
16	1	7	.81563	16	3	7	.84063	17	1	7	.86563	17	3	7	.89063
16	1	8	.81608	16	3	8	.84108	17	1	8	.86608	17	3	8	.89108
16	1	9	.81652	16	3	9	.84152	17	1	9	.86652	17	3	9	.89152
16	1	10	.81697	16	3	10	.84197	17	1	10	.86697	17	3	10	.89197
16	1	11	.81742	16	3	11	.84242	17	1	11	.86742	17	3	11	.89242
16	1	12	.81786	16	3	12	.84286	17	1	12	.86786	17	3	12	.89286
16	1	13	.81831	16	3	13	.84331	17	1	13	.86831	17	3	13	.89331
16	1	14	.81875	16	3	14	.84375	17	1	14	.86875	17	3	14	.89375
16	1	15	.8192	16	3	15	.8442	17	1	15	.8692	17	3	15	.8942
16	1	16	.81965	16	3	16	.84465	17	1	16	.86965	17	3	16	.89465
16	1	17	.82009	16	3	17	.84509	17	1	17	.87009	17	3	17	.89509
16	1	18	.82054	16	3	18	.84554	17	1	18	.87054	17	3	18	.89554
16	1	19	.82099	16	3	19	.84599	17	1	19	.87099	17	3	19	.89599
16	1	20	.82143	16	3	20	.84643	17	1	20	.87143	17	3	20	.89643
16	1	21	.82188	16	3	21	.84688	17	1	21	.87188	17	3	21	.89688
16	1	22	.82233	16	3	22	.84733	17	1	22	.87233	17	3	22	.89733
16	1	23	.82277	16	3	23	.84777	17	1	23	.87277	17	3	23	.89777
16	1	24	.82322	16	3	24	.84822	17	1	24	.87322	17	3	24	.89822
16	1	25	.82367	16	3	25	.84867	17	1	25	.87367	17	3	25	.89867
16	1	26	.82411	16	3	26	.84911	17	1	26	.87411	17	3	26	.89911
16	1	27	.82456	16	3	27	.84956	17	1	27	.87456	17	3	27	.89956
16	2	0	.825	17	0	0	.85	17	2	0	.875	18	0	0	.9



18 : 0 : 1 to 20 : 0 : 0]

## TON WEIGHT.

Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.	Cwts.	Qrs.	Lbs.	Decimals.
18	0	1	.90045	18	2	1	.92545	19	0	1	.95045	19	2	1	.97545
18	0	2	.9009	18	2	2	.9259	19	0	2	.9509	19	2	2	.9759
18	0	3	.90134	18	2	3	.92634	19	0	3	.95134	19	2	3	.97634
18	0	4	.90179	18	2	4	.92679	19	0	4	.95179	19	2	4	.97679
18	0	5	.90224	18	2	5	.92724	19	0	5	.95224	19	2	5	.97724
18	0	6	.90268	18	2	6	.92768	19	0	6	.95268	19	2	6	.97768
18	0	7	.90313	18	2	7	.92813	19	0	7	.95313	19	2	7	.97813
18	0	8	.90358	18	2	8	.92858	19	0	8	.95358	19	2	8	.97858
18	0	9	.90402	18	2	9	.92902	19	0	9	.95402	19	2	9	.97902
18	0	10	.90447	18	2	10	.92947	19	0	10	.95447	19	2	10	.97947
18	0	11	.90492	18	2	11	.92992	19	0	11	.95492	19	2	11	.97992
18	0	12	.90536	18	2	12	.93036	19	0	12	.95536	19	2	12	.98036
18	0	13	.90581	18	2	13	.93081	19	0	13	.95581	19	2	13	.98081
18	0	14	.90625	18	2	14	.93125	19	0	14	.95625	19	2	14	.98125
18	0	15	.9067	18	2	15	.9317	19	0	15	.9567	19	2	15	.9817
18	0	16	.90715	18	2	16	.93215	19	0	16	.95715	19	2	16	.98215
18	0	17	.90759	18	2	17	.93259	19	0	17	.95759	19	2	17	.98259
18	0	18	.90804	18	2	18	.93304	19	0	18	.95804	19	2	18	.98304
18	0	19	.90849	18	2	19	.93349	19	0	19	.95849	19	2	19	.98349
18	0	20	.90893	18	2	20	.93393	19	0	20	.95893	19	2	20	.98393
18	0	21	.90938	18	2	21	.93438	19	0	21	.95938	19	2	21	.98438
18	0	22	.90983	18	2	22	.93483	19	0	22	.95983	19	2	22	.98483
18	0	23	.91027	18	2	23	.93527	19	0	23	.96027	19	2	23	.98527
18	0	24	.91072	18	2	24	.93572	19	0	24	.96072	19	2	24	.98572
18	0	25	.91117	18	2	25	.93617	19	0	25	.96117	19	2	25	.98617
18	0	26	.91161	18	2	26	.93661	19	0	26	.96161	19	2	26	.98661
18	0	27	.91206	18	2	27	.93706	19	0	27	.96206	19	2	27	.98706
18	1	0	.9125	18	3	0	.9375	19	1	0	.9625	19	3	0	.9875
18	1	1	.91295	18	3	1	.93795	19	1	1	.96295	19	3	1	.98795
18	1	2	.9134	18	3	2	.9384	19	1	2	.9634	19	3	2	.9884
18	1	3	.91384	18	3	3	.93884	19	1	3	.96384	19	3	3	.98884
18	1	4	.91429	18	3	4	.93929	19	1	4	.96429	19	3	4	.98929
18	1	5	.91474	18	3	5	.93974	19	1	5	.96474	19	3	5	.98974
18	1	6	.91518	18	3	6	.94018	19	1	6	.96518	19	3	6	.99018
18	1	7	.91563	18	3	7	.94063	19	1	7	.96563	19	3	7	.99063
18	1	8	.91608	18	3	8	.94108	19	1	8	.96608	19	3	8	.99108
18	1	9	.91652	18	3	9	.94152	19	1	9	.96652	19	3	9	.99152
18	1	10	.91697	18	3	10	.94197	19	1	10	.96697	19	3	10	.99197
18	1	11	.91742	18	3	11	.94242	19	1	11	.96742	19	3	11	.99242
18	1	12	.91786	18	3	12	.94286	19	1	12	.96786	19	3	12	.99286
18	1	13	.91831	18	3	13	.94331	19	1	13	.96831	19	3	13	.99331
18	1	14	.91875	18	3	14	.94375	19	1	14	.96875	19	3	14	.99375
18	1	15	.9192	18	3	15	.9442	19	1	15	.9692	19	3	15	.9942
18	1	16	.91965	18	3	16	.94465	19	1	16	.96965	19	3	16	.99465
18	1	17	.92009	18	3	17	.94509	19	1	17	.97009	19	3	17	.99509
18	1	18	.92054	18	3	18	.94554	19	1	18	.97054	19	3	18	.99554
18	1	19	.92099	18	3	19	.94599	19	1	19	.97099	19	3	19	.99599
18	1	20	.92143	18	3	20	.94643	19	1	20	.97143	19	3	20	.99643
18	1	21	.92188	18	3	21	.94688	19	1	21	.97188	19	3	21	.99688
18	1	22	.92233	18	3	22	.94733	19	1	22	.97233	19	3	22	.99733
18	1	23	.92277	18	3	23	.94777	19	1	23	.97277	19	3	23	.99777
18	1	24	.92322	18	3	24	.94822	19	1	24	.97322	19	3	24	.99822
18	1	25	.92367	18	3	25	.94867	19	1	25	.97367	19	3	25	.99867
18	1	26	.92411	18	3	26	.94911	19	1	26	.97411	19	3	26	.99911
18	1	27	.92456	18	3	27	.94956	19	1	27	.97456	19	3	27	.99956
18	2	0	.925	19	0	0	.95	19	2	0	.975	20	0	0	—

## TABLE.

The Decimals from One Grain progressively to an Ounce Troy.

Dwt.	Gr.	Decimals.	Dwt.	Gr.	Decimals.	Dwt.	Gr.	Decimals.	Dwt.	Gr.	Decimals.
0	1	.00209	2	1	.10209	4	1	.20209	6	1	.30209
0	2	.00417	2	2	.10417	4	2	.20417	6	2	.30417
0	3	.00625	2	3	.10625	4	3	.20625	6	3	.30625
0	4	.00834	2	4	.10834	4	4	.20834	6	4	.30834
0	5	.01042	2	5	.11042	4	5	.21042	6	5	.31042
0	6	.0125	2	6	.1125	4	6	.2125	6	6	.3125
0	7	.01459	2	7	.11459	4	7	.21459	6	7	.31459
0	8	.01667	2	8	.11667	4	8	.21667	6	8	.31667
0	9	.01875	2	9	.11875	4	9	.21875	6	9	.31875
0	10	.02084	2	10	.12084	4	10	.22084	6	10	.32084
0	11	.02292	2	11	.12292	4	11	.22292	6	11	.32292
0	12	.025	2	12	.125	4	12	.225	6	12	.325
0	13	.02709	2	13	.12709	4	13	.22709	6	13	.32709
0	14	.02917	2	14	.12917	4	14	.22917	6	14	.32917
0	15	.03125	2	15	.13125	4	15	.23125	6	15	.33125
0	16	.03334	2	16	.13334	4	16	.23334	6	16	.33334
0	17	.03542	2	17	.13542	4	17	.23542	6	17	.33542
0	18	.0375	2	18	.1375	4	18	.2375	6	18	.3375
0	19	.03959	2	19	.13959	4	19	.23959	6	19	.33959
0	20	.04167	2	20	.14167	4	20	.24167	6	20	.34167
0	21	.04375	2	21	.14375	4	21	.24375	6	21	.34375
0	22	.04584	2	22	.14584	4	22	.24584	6	22	.34584
0	23	.04792	2	23	.14792	4	23	.24792	6	23	.34792
1	0	.05	3	0	.15	5	0	.25	7	0	.35
1	1	.05209	3	1	.15209	5	1	.25209	7	1	.35209
1	2	.05417	3	2	.15417	5	2	.25417	7	2	.35417
1	3	.05625	3	3	.15625	5	3	.25625	7	3	.35625
1	4	.05834	3	4	.15834	5	4	.25834	7	4	.35834
1	5	.06042	3	5	.16042	5	5	.26042	7	5	.36042
1	6	.0625	3	6	.1625	5	6	.2625	7	6	.3625
1	7	.06459	3	7	.16459	5	7	.26459	7	7	.36459
1	8	.06667	3	8	.16667	5	8	.26667	7	8	.36667
1	9	.06875	3	9	.16875	5	9	.26875	7	9	.36875
1	10	.07084	3	10	.17084	5	10	.27084	7	10	.37084
1	11	.07292	3	11	.17292	5	11	.27292	7	11	.37292
1	12	.075	3	12	.175	5	12	.275	7	12	.375
1	13	.07709	3	13	.17709	5	13	.27709	7	13	.37709
1	14	.07917	3	14	.17917	5	14	.27917	7	14	.37917
1	15	.08125	3	15	.18125	5	15	.28125	7	15	.38125
1	16	.08334	3	16	.18334	5	16	.28334	7	16	.38334
1	17	.08542	3	17	.18542	5	17	.28542	7	17	.38542
1	18	.0875	3	18	.1875	5	18	.2875	7	18	.3875
1	19	.08959	3	19	.18959	5	19	.28959	7	19	.38959
1	20	.09167	3	20	.19167	5	20	.29167	7	20	.39167
1	21	.09375	3	21	.19375	5	21	.29375	7	21	.39375
1	22	.09584	3	22	.19584	5	22	.29584	7	22	.39584
1	23	.09792	3	23	.19792	5	23	.29792	7	23	.39792
2	0	.1	4	0	.2	6	0	.3	8	0	.4



dwts. grs. dwts. grs.  
8 : 1 to 16 : 0]

## OUNCE TROY.

Dwts.	Grs.	Decimals.	Dwts.	Grs.	Decimals.	Dwts.	Grs.	Decimals.	Dwts.	Grs.	Decimals.
8	1	.40209	10	1	.50209	12	1	.60209	14	1	.70209
8	2	.40417	10	2	.50417	12	2	.60417	14	2	.70417
8	3	.40625	10	3	.50625	12	3	.60625	14	3	.70625
8	4	.40834	10	4	.50834	12	4	.60834	14	4	.70834
8	5	.41042	10	5	.51042	12	5	.61042	14	5	.71042
8	6	.4125	10	6	.5125	12	6	.6125	14	6	.7125
8	7	.41459	10	7	.51459	12	7	.61459	14	7	.71459
8	8	.41667	10	8	.51667	12	8	.61667	14	8	.71667
8	9	.41875	10	9	.51875	12	9	.61875	14	9	.71875
8	10	.42084	10	10	.52084	12	10	.62084	14	10	.72084
8	11	.42292	10	11	.52292	12	11	.62292	14	11	.72292
8	12	.425	10	12	.525	12	12	.625	14	12	.725
8	13	.42709	10	13	.52709	12	13	.62709	14	13	.72709
8	14	.42917	10	14	.52917	12	14	.62917	14	14	.72917
8	15	.43125	10	15	.53125	12	15	.63125	14	15	.73125
8	16	.43334	10	16	.53334	12	16	.63334	14	16	.73334
8	17	.43542	10	17	.53542	12	17	.63542	14	17	.73542
8	18	.4375	10	18	.5375	12	18	.6375	14	18	.7375
8	19	.43959	10	19	.53959	12	19	.63959	14	19	.73959
8	20	.44167	10	20	.54167	12	20	.64167	14	20	.74167
8	21	.44375	10	21	.54375	12	21	.64375	14	21	.74375
8	22	.44584	10	22	.54584	12	22	.64584	14	22	.74584
8	23	.44792	10	23	.54792	12	23	.64792	14	23	.74792
9	0	.45	11	0	.55	13	0	.65	15	0	.75
9	1	.45209	11	1	.55209	13	1	.65209	15	1	.75209
9	2	.45417	11	2	.55417	13	2	.65417	15	2	.75417
9	3	.45625	11	3	.55625	13	3	.65625	15	3	.75625
9	4	.45834	11	4	.55834	13	4	.65834	15	4	.75834
9	5	.46042	11	5	.56042	13	5	.66042	15	5	.76042
9	6	.4625	11	6	.5625	13	6	.6625	15	6	.7625
9	7	.46459	11	7	.56459	13	7	.66459	15	7	.76459
9	8	.46667	11	8	.56667	13	8	.66667	15	8	.76667
9	9	.46875	11	9	.56875	13	9	.66875	15	9	.76875
9	10	.47084	11	10	.57084	13	10	.67084	15	10	.77084
9	11	.47292	11	11	.57292	13	11	.67292	15	11	.77292
9	12	.475	11	12	.575	13	12	.675	15	12	.775
9	13	.47709	11	13	.57709	13	13	.67709	15	13	.77709
9	14	.47917	11	14	.57917	13	14	.67917	15	14	.77917
9	15	.48125	11	15	.58125	13	15	.68125	15	15	.78125
9	16	.48334	11	16	.58334	13	16	.68334	15	16	.78334
9	17	.48542	11	17	.58542	13	17	.68542	15	17	.78542
9	18	.4875	11	18	.5875	13	18	.6875	15	18	.7875
9	19	.48959	11	19	.58959	13	19	.68959	15	19	.78959
9	20	.49167	11	20	.59167	13	20	.69167	15	20	.79167
9	21	.49375	11	21	.59375	13	21	.69375	15	21	.79375
9	22	.49584	11	22	.59584	13	22	.69584	15	22	.79584
9	23	.49792	11	23	.59792	13	23	.69792	15	23	.79792
10	0	.5	12	0	.6	14	0	.7	16	0	.8

# OUNCE TROY.

<sup>dwt.</sup> <sup>grs.</sup> <sup>dwt.</sup> <sup>grs.</sup>  
[16 : 1 to 20 : 0

Dwts.	Grs.	Decimals.	Dwts.	Grs.	Decimals.	Dwts.	Grs.	Decimals.	Dwts.	Grs.	Decimals.
16	1	.80209	17	1	.85209	18	1	.90209	19	1	.95209
16	2	.80417	17	2	.85417	18	2	.90417	19	2	.95417
16	3	.80625	17	3	.85625	18	3	.90625	19	3	.95625
16	4	.80834	17	4	.85834	18	4	.90834	19	4	.95834
16	5	.81042	17	5	.86042	18	5	.91042	19	5	.96042
16	6	.8125	17	6	.8625	18	6	.9125	19	6	.9625
16	7	.81459	17	7	.86459	18	7	.91459	19	7	.96459
16	8	.81667	17	8	.86667	18	8	.91667	19	8	.96667
16	9	.81875	17	9	.86875	18	9	.91875	19	9	.96875
16	10	.82084	17	10	.87084	18	10	.92084	19	10	.97084
16	11	.82292	17	11	.87292	18	11	.92292	19	11	.97292
16	12	.825	17	12	.875	18	12	.925	19	12	.975
16	13	.82709	17	13	.87709	18	13	.92709	19	13	.97709
16	14	.82917	17	14	.87917	18	14	.92917	19	14	.97917
16	15	.83125	17	15	.88125	18	15	.93125	19	15	.98125
16	16	.83334	17	16	.88334	18	16	.93334	19	16	.98334
16	17	.83542	17	17	.88542	18	17	.93542	19	17	.98542
16	18	.8375	17	18	.8875	18	18	.9375	19	18	.9875
16	19	.83959	17	19	.88959	18	19	.93959	19	19	.98959
16	20	.84167	17	20	.89167	18	20	.94167	19	20	.99167
16	21	.84375	17	21	.89375	18	21	.94375	19	21	.99375
16	22	.84584	17	22	.89584	18	22	.94584	19	22	.99584
16	23	.84792	17	23	.89792	18	23	.94792	19	23	.99792
17	0	.85	18	0	.9	19	0	.95	20	0	—

## TABLE.

From One Dwt. to One Ounce of Silver.

Dwts.	Decimals.	Dwts.	Decimals.
1	.05	17	.55
2	.1	18	.6
3	.15	19	.65
4	.2	20	.7
5	.25		.75
6	.3		.8
7	.35		.85
8	.4		.9
9	.45		.95
10	.5		—

In England the Standard of Gold is 22 Carats fine: that is, 22 parts of pure Gold and 2 of Alloy, the Carat being the 24th part of the Weight. The Standard of Silver is 11 c/2 dwts. of pure Silver to 18 dwts. of Alloy, making together One pound Troy.



## TABLE.

The Decimals from One Grain progressively to a Pound Troy.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
0	0	1	.00018	0	2	1	.00851	0	4	1	.01685	0	6	1	.02518
0	0	2	.00035	0	2	2	.00869	0	4	2	.01702	0	6	2	.02535
0	0	3	.00053	0	2	3	.00886	0	4	3	.01719	0	6	3	.02553
0	0	4	.0007	0	2	4	.00903	0	4	4	.01737	0	6	4	.0257
0	0	5	.00087	0	2	5	.00921	0	4	5	.01754	0	6	5	.02587
0	0	6	.00105	0	2	6	.00938	0	4	6	.01771	0	6	6	.02605
0	0	7	.00122	0	2	7	.00955	0	4	7	.01789	0	6	7	.02622
0	0	8	.00139	0	2	8	.00973	0	4	8	.01806	0	6	8	.02639
0	0	9	.00157	0	2	9	.0099	0	4	9	.01823	0	6	9	.02657
0	0	10	.00174	0	2	10	.01007	0	4	10	.01841	0	6	10	.02674
0	0	11	.00191	0	2	11	.01025	0	4	11	.01858	0	6	11	.02691
0	0	12	.00209	0	2	12	.01042	0	4	12	.01875	0	6	12	.02709
0	0	13	.00226	0	2	13	.0106	0	4	13	.01893	0	6	13	.02726
0	0	14	.00244	0	2	14	.01077	0	4	14	.0191	0	6	14	.02744
0	0	15	.00261	0	2	15	.01094	0	4	15	.01928	0	6	15	.02761
0	0	16	.00278	0	2	16	.01112	0	4	16	.01945	0	6	16	.02778
0	0	17	.00296	0	2	17	.01129	0	4	17	.01962	0	6	17	.02796
0	0	18	.00313	0	2	18	.01146	0	4	18	.0198	0	6	18	.02813
0	0	19	.0033	0	2	19	.01164	0	4	19	.01997	0	6	19	.0283
0	0	20	.00348	0	2	20	.01181	0	4	20	.02014	0	6	20	.02848
0	0	21	.00365	0	2	21	.01198	0	4	21	.02032	0	6	21	.02865
0	0	22	.00382	0	2	22	.01216	0	4	22	.02049	0	6	22	.02882
0	0	23	.004	0	2	23	.01233	0	4	23	.02066	0	6	23	.029
0	1	0	.00417	0	3	0	.0125	0	5	0	.02084	0	7	0	.02917
0	1	1	.00435	0	3	1	.01268	0	5	1	.02101	0	7	1	.02935
0	1	2	.00452	0	3	2	.01285	0	5	2	.02119	0	7	2	.02952
0	1	3	.00469	0	3	3	.01303	0	5	3	.02136	0	7	3	.02969
0	1	4	.00487	0	3	4	.0132	0	5	4	.02153	0	7	4	.02987
0	1	5	.00504	0	3	5	.01337	0	5	5	.02171	0	7	5	.03004
0	1	6	.00521	0	3	6	.01355	0	5	6	.02188	0	7	6	.03021
0	1	7	.00539	0	3	7	.01372	0	5	7	.02205	0	7	7	.03039
0	1	8	.00556	0	3	8	.01389	0	5	8	.02223	0	7	8	.03056
0	1	9	.00573	0	3	9	.01407	0	5	9	.0224	0	7	9	.03073
0	1	10	.00591	0	3	10	.01424	0	5	10	.02257	0	7	10	.03091
0	1	11	.00608	0	3	11	.01441	0	5	11	.02275	0	7	11	.03108
0	1	12	.00625	0	3	12	.01459	0	5	12	.02292	0	7	12	.03125
0	1	13	.00643	0	3	13	.01476	0	5	13	.0231	0	7	13	.03143
0	1	14	.0066	0	3	14	.01494	0	5	14	.02327	0	7	14	.0316
0	1	15	.00678	0	3	15	.01511	0	5	15	.02344	0	7	15	.03178
0	1	16	.00695	0	3	16	.01528	0	5	16	.02362	0	7	16	.03195
0	1	17	.00712	0	3	17	.01546	0	5	17	.02379	0	7	17	.03212
0	1	18	.0073	0	3	18	.01563	0	5	18	.02396	0	7	18	.0323
0	1	19	.00747	0	3	19	.0158	0	5	19	.02414	0	7	19	.03247
0	1	20	.00764	0	3	20	.01598	0	5	20	.02431	0	7	20	.03264
0	1	21	.00782	0	3	21	.01615	0	5	21	.02448	0	7	21	.03282
0	1	22	.00799	0	3	22	.01632	0	5	22	.02466	0	7	22	.03299
0	1	23	.00816	0	3	23	.0165	0	5	23	.02483	0	7	23	.03316
0	2	0	.00834	0	4	0	.01667	0	6	0	.025	0	8	0	.03334

oz. dwt. grs.      oz. dwt. grs.  
0 : 8 : 1 to 0 : 16 : 0]

# POUND TROY.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
0	8	1	.03351	0	10	1	.04185	0	12	1	.05018	0	14	1	.05851
0	8	2	.03369	0	10	2	.04202	0	12	2	.05035	0	14	2	.05869
0	8	3	.03386	0	10	3	.04219	0	12	3	.05053	0	14	3	.05886
0	8	4	.03403	0	10	4	.04237	0	12	4	.0507	0	14	4	.05903
0	8	5	.03421	0	10	5	.04254	0	12	5	.05087	0	14	5	.05921
0	8	6	.03438	0	10	6	.04271	0	12	6	.05105	0	14	6	.05938
0	8	7	.03455	0	10	7	.04289	0	12	7	.05122	0	14	7	.05955
0	8	8	.03473	0	10	8	.04306	0	12	8	.05139	0	14	8	.05973
0	8	9	.0349	0	10	9	.04323	0	12	9	.05157	0	14	9	.0599
0	8	10	.03507	0	10	10	.04341	0	12	10	.05174	0	14	10	.06007
0	8	11	.03525	0	10	11	.04358	0	12	11	.05191	0	14	11	.06025
0	8	12	.03542	0	10	12	.04375	0	12	12	.05209	0	14	12	.06042
0	8	13	.0356	0	10	13	.04393	0	12	13	.05226	0	14	13	.0606
0	8	14	.03577	0	10	14	.0441	0	12	14	.05244	0	14	14	.06077
0	8	15	.03594	0	10	15	.04428	0	12	15	.05261	0	14	15	.06094
0	8	16	.03612	0	10	16	.04445	0	12	16	.05278	0	14	16	.06112
0	8	17	.03629	0	10	17	.04462	0	12	17	.05296	0	14	17	.06129
0	8	18	.03646	0	10	18	.0448	0	12	18	.05313	0	14	18	.06146
0	8	19	.03664	0	10	19	.04497	0	12	19	.0533	0	14	19	.06164
0	8	20	.03681	0	10	20	.04514	0	12	20	.05348	0	14	20	.06181
0	8	21	.03698	0	10	21	.04532	0	12	21	.05365	0	14	21	.06198
0	8	22	.03716	0	10	22	.04549	0	12	22	.05382	0	14	22	.06216
0	8	23	.03733	0	10	23	.04566	0	12	23	.054	0	14	23	.06233
0	9	0	.0375	0	11	0	.04584	0	13	0	.05417	0	15	0	.0625
0	9	1	.03768	0	11	1	.04601	0	13	1	.05435	0	15	1	.06268
0	9	2	.03785	0	11	2	.04619	0	13	2	.05452	0	15	2	.06285
0	9	3	.03803	0	11	3	.04636	0	13	3	.05469	0	15	3	.06303
0	9	4	.0382	0	11	4	.04653	0	13	4	.05487	0	15	4	.0632
0	9	5	.03837	0	11	5	.04671	0	13	5	.05504	0	15	5	.06337
0	9	6	.03855	0	11	6	.04688	0	13	6	.05521	0	15	6	.06355
0	9	7	.03872	0	11	7	.04705	0	13	7	.05539	0	15	7	.06372
0	9	8	.03889	0	11	8	.04723	0	13	8	.05556	0	15	8	.06389
0	9	9	.03907	0	11	9	.04741	0	13	9	.05573	0	15	9	.06407
0	9	10	.03924	0	11	10	.04757	0	13	10	.05591	0	15	10	.06424
0	9	11	.03941	0	11	11	.04775	0	13	11	.05608	0	15	11	.06441
0	9	12	.03959	0	11	12	.04792	0	13	12	.05625	0	15	12	.06459
0	9	13	.03976	0	11	13	.0481	0	13	13	.05643	0	15	13	.06476
0	9	14	.03994	0	11	14	.04827	0	13	14	.0566	0	15	14	.06494
0	9	15	.04011	0	11	15	.04844	0	13	15	.05678	0	15	15	.06511
0	9	16	.04028	0	11	16	.04862	0	13	16	.05695	0	15	16	.06528
0	9	17	.04046	0	11	17	.04879	0	13	17	.05712	0	15	17	.06546
0	9	18	.04063	0	11	18	.04896	0	13	18	.0573	0	15	18	.06563
0	9	19	.0408	0	11	19	.04914	0	13	19	.05747	0	15	19	.0658
0	9	20	.04098	0	11	20	.04931	0	13	20	.05764	0	15	20	.06598
0	9	21	.04115	0	11	21	.04948	0	13	21	.05782	0	15	21	.06615
0	9	22	.04132	0	11	22	.04966	0	13	22	.05799	0	15	22	.06632
0	9	23	.0415	0	11	23	.04983	0	13	23	.05816	0	15	23	.0665
0	10	0	.04167	0	12	0	.05	0	14	0	.05834	0	16	0	.06667

## POUND TROY.

[0 : 16 : 1 to 1 : 4 : 0]

Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.
0	16	1	.06685	0	18	1	.07518	1	0	1	.08351	1	2	1	.09185
0	16	2	.06702	0	18	2	.07535	1	0	2	.08369	1	2	2	.09202
0	16	3	.06719	0	18	3	.07558	1	0	3	.08386	1	2	3	.09219
0	16	4	.06737	0	18	4	.0757	1	0	4	.08403	1	2	4	.09237
0	16	5	.06754	0	18	5	.07587	1	0	5	.08421	1	2	5	.09254
0	16	6	.06771	0	18	6	.07605	1	0	6	.08438	1	2	6	.09271
0	16	7	.06789	0	18	7	.07622	1	0	7	.08455	1	2	7	.09289
0	16	8	.06806	0	18	8	.07639	1	0	8	.08473	1	2	8	.09306
0	16	9	.06823	0	18	9	.07657	1	0	9	.0849	1	2	9	.09323
0	16	10	.06841	0	18	10	.07674	1	0	10	.08507	1	2	10	.09341
0	16	11	.06858	0	18	11	.07691	1	0	11	.08525	1	2	11	.09358
0	16	12	.06875	0	18	12	.07709	1	0	12	.08542	1	2	12	.09375
0	16	13	.06893	0	18	13	.07726	1	0	13	.0856	1	2	13	.09393
0	16	14	.0691	0	18	14	.07741	1	0	14	.08577	1	2	14	.0941
0	16	15	.06928	0	18	15	.07761	1	0	15	.08594	1	2	15	.09428
0	16	16	.06945	0	18	16	.07778	1	0	16	.08612	1	2	16	.09445
0	16	17	.06962	0	18	17	.07796	1	0	17	.08629	1	2	17	.09462
0	16	18	.0698	0	18	18	.07813	1	0	18	.08646	1	2	18	.0948
0	16	19	.06997	0	18	19	.07831	1	0	19	.08661	1	2	19	.09497
0	16	20	.07014	0	18	20	.07848	1	0	20	.08681	1	2	20	.09511
0	16	21	.07032	0	18	21	.07865	1	0	21	.08698	1	2	21	.09532
0	16	22	.07049	0	18	22	.07882	1	0	22	.08716	1	2	22	.09549
0	16	23	.07066	0	18	23	.079	1	0	23	.08733	1	2	23	.09566
0	17	0	.07084	0	19	0	.07917	1	1	0	.0875	1	3	0	.09584
0	17	1	.07101	0	19	1	.07935	1	1	1	.08768	1	3	1	.09601
0	17	2	.07119	0	19	2	.07952	1	1	2	.08785	1	3	2	.09619
0	17	3	.07136	0	19	3	.07969	1	1	3	.08803	1	3	3	.09636
0	17	4	.07153	0	19	4	.07987	1	1	4	.0882	1	3	4	.09653
0	17	5	.07171	0	19	5	.08004	1	1	5	.08837	1	3	5	.09671
0	17	6	.07188	0	19	6	.08021	1	1	6	.08855	1	3	6	.09688
0	17	7	.07205	0	19	7	.08039	1	1	7	.08872	1	3	7	.09705
0	17	8	.07223	0	19	8	.08056	1	1	8	.08889	1	3	8	.09723
0	17	9	.0724	0	19	9	.08073	1	1	9	.08907	1	3	9	.0974
0	17	10	.07257	0	19	10	.08091	1	1	10	.08924	1	3	10	.09757
0	17	11	.07275	0	19	11	.08108	1	1	11	.08941	1	3	11	.09775
0	17	12	.07292	0	19	12	.08125	1	1	12	.08959	1	3	12	.09792
0	17	13	.0731	0	19	13	.08143	1	1	13	.08976	1	3	13	.0981
0	17	14	.07327	0	19	14	.0816	1	1	14	.08994	1	3	14	.09827
0	17	15	.07344	0	19	15	.08178	1	1	15	.09011	1	3	15	.09844
0	17	16	.07362	0	19	16	.08195	1	1	16	.09028	1	3	16	.09862
0	17	17	.07379	0	19	17	.08212	1	1	17	.09046	1	3	17	.09879
0	17	18	.07396	0	19	18	.0823	1	1	18	.09063	1	3	18	.09896
0	17	19	.07414	0	19	19	.08247	1	1	19	.0908	1	3	19	.09914
0	17	20	.07431	0	19	20	.08264	1	1	20	.09098	1	3	20	.09931
0	17	21	.07448	0	19	21	.08282	1	1	21	.09115	1	3	21	.09948
0	17	22	.07466	0	19	22	.08299	1	1	22	.09132	1	3	22	.09966
0	17	23	.07483	0	19	23	.08316	1	1	23	.0915	1	3	23	.09983
0	18	0	.075	1	0	0	.08334	1	2	0	.09167	1	4	0	1

oz. dwt. gr.      oz. dwt. gr.  
1 : 4 : 1 to 1 : 12 : 0]

# POUND TROY.

Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.
1	4	1	.10018	1	6	1	.10851	1	8	1	.11685	1	10	1	.12518
1	4	2	.10035	1	6	2	.10869	1	8	2	.11702	1	10	2	.12535
1	4	3	.10053	1	6	3	.10886	1	8	3	.11719	1	10	3	.12553
1	4	4	.1007	1	6	4	.10903	1	8	4	.11737	1	10	4	.1257
1	4	5	.10087	1	6	5	.10921	1	8	5	.11754	1	10	5	.12587
1	4	6	.10105	1	6	6	.10938	1	8	6	.11771	1	10	6	.12605
1	4	7	.10122	1	6	7	.10955	1	8	7	.11789	1	10	7	.12622
1	4	8	.10139	1	6	8	.10973	1	8	8	.11806	1	10	8	.12639
1	4	9	.10157	1	6	9	.1099	1	8	9	.11823	1	10	9	.12657
1	4	10	.10174	1	6	10	.11007	1	8	10	.11841	1	10	10	.12674
1	1	11	.10191	1	6	11	.11025	1	8	11	.11858	1	10	11	.12691
1	4	12	.10209	1	6	12	.11042	1	8	12	.11875	1	10	12	.12709
1	4	13	.10226	1	6	13	.1106	1	8	13	.11893	1	10	13	.12726
1	4	14	.10244	1	6	14	.11077	1	8	14	.1191	1	10	14	.12744
1	1	15	.10261	1	6	15	.11094	1	8	15	.11928	1	10	15	.12761
1	4	16	.10278	1	6	16	.11112	1	8	16	.11945	1	10	16	.12778
1	4	17	.10296	1	6	17	.11129	1	8	17	.11962	1	10	17	.12796
1	4	18	.10313	1	6	18	.11146	1	8	18	.1198	1	10	18	.12813
1	4	19	.1033	1	6	19	.11164	1	8	19	.11997	1	10	19	.1283
1	1	20	.10348	1	6	20	.11181	1	8	20	.12014	1	10	20	.12848
1	4	21	.10365	1	6	21	.11198	1	8	21	.12032	1	10	21	.12865
1	1	22	.10382	1	6	22	.11216	1	8	22	.12049	1	10	22	.12882
1	1	23	.104	1	6	23	.11233	1	8	23	.12066	1	10	23	.129
1	5	0	.10417	1	7	0	.1125	1	9	0	.12084	1	11	0	.12917
1	5	1	.10435	1	7	1	.11268	1	9	1	.12101	1	11	1	.12935
1	5	2	.10452	1	7	2	.11285	1	9	2	.12119	1	11	2	.12952
1	5	3	.10469	1	7	3	.11303	1	9	3	.12136	1	11	3	.12969
1	5	4	.10487	1	7	4	.1132	1	9	4	.12153	1	11	4	.12987
1	5	5	.10504	1	7	5	.11337	1	9	5	.12171	1	11	5	.13004
1	5	6	.10521	1	7	6	.11355	1	9	6	.12188	1	11	6	.13021
1	5	7	.10538	1	7	7	.11372	1	9	7	.12205	1	11	7	.13039
1	5	8	.10556	1	7	8	.11389	1	9	8	.12223	1	11	8	.13056
1	5	9	.10573	1	7	9	.11407	1	9	9	.1224	1	11	9	.13073
1	5	10	.10591	1	7	10	.11424	1	9	10	.12257	1	11	10	.13091
1	5	11	.10608	1	7	11	.11441	1	9	11	.12275	1	11	11	.13108
1	5	12	.10625	1	7	12	.11459	1	9	12	.12292	1	11	12	.13125
1	5	13	.10643	1	7	13	.11476	1	9	13	.1231	1	11	13	.13143
1	5	14	.1066	1	7	14	.11494	1	9	14	.12327	1	11	14	.1316
1	5	15	.10678	1	7	15	.11511	1	9	15	.12344	1	11	15	.13178
1	5	16	.1069	1	7	16	.11528	1	9	16	.12362	1	11	16	.13195
1	5	17	.1071	1	7	17	.11546	1	9	17	.12379	1	11	17	.13212
1	5	18	.1073	1	7	18	.11563	1	9	18	.12396	1	11	18	.1323
1	5	19	.10747	1	7	19	.1158	1	9	19	.12414	1	11	19	.13247
1	5	20	.10764	1	7	20	.11598	1	9	20	.12431	1	11	20	.13264
1	5	21	.10782	1	7	21	.11615	1	9	21	.12448	1	11	21	.13282
1	5	22	.10799	1	7	22	.11632	1	9	22	.12466	1	11	22	.13299
1	5	23	.10816	1	7	23	.1165	1	9	23	.12483	1	11	23	.13316
1	6	0	.10834	1	8	0	.11667	1	10	0	.125	1	12	0	.13334

## POUND TROY.

[1 : 12 : 1 to 2 : 0 : 0]

On.	Dnts.	Grs.	Decimals.	On.	Dnts.	Grs.	Decimals.	On.	Dnts.	Grs.	Decimals.	On.	Dnts.	Grs.	Decimals.
1	12	1	.13351	1	14	1	.14185	1	16	1	.15018	1	18	1	.15851
1	12	2	.13369	1	14	2	.14202	1	16	2	.15035	1	18	2	.15869
1	12	3	.13386	1	14	3	.14219	1	16	3	.15053	1	18	3	.15886
1	12	4	.13403	1	14	4	.14237	1	16	4	.1507	1	18	4	.15903
1	12	5	.13421	1	14	5	.14254	1	16	5	.15087	1	18	5	.15921
1	12	6	.13438	1	14	6	.14271	1	16	6	.15105	1	18	6	.15938
1	12	7	.13455	1	14	7	.14289	1	16	7	.15122	1	18	7	.15955
1	12	8	.13473	1	14	8	.14306	1	16	8	.15139	1	18	8	.15973
1	12	9	.1349	1	14	9	.14323	1	16	9	.15157	1	18	9	.1599
1	12	10	.13507	1	14	10	.14341	1	16	10	.15174	1	18	10	.16007
1	12	11	.13525	1	14	11	.14358	1	16	11	.15191	1	18	11	.16025
1	12	12	.13542	1	14	12	.14375	1	16	12	.15209	1	18	12	.16042
1	12	13	.1356	1	14	13	.14393	1	16	13	.15226	1	18	13	.1606
1	12	14	.13577	1	14	14	.1441	1	16	14	.15244	1	18	14	.16077
1	12	15	.13594	1	14	15	.14428	1	16	15	.15261	1	18	15	.16094
1	12	16	.13612	1	14	16	.14445	1	16	16	.15278	1	18	16	.16112
1	12	17	.13629	1	14	17	.14462	1	16	17	.15296	1	18	17	.16129
1	12	18	.13646	1	14	18	.1448	1	16	18	.15313	1	18	18	.16146
1	12	19	.13664	1	14	19	.14497	1	16	19	.1533	1	18	19	.16164
1	12	20	.13681	1	14	20	.14514	1	16	20	.15348	1	18	20	.16181
1	12	21	.13698	1	14	21	.14532	1	16	21	.15365	1	18	21	.16198
1	12	22	.13716	1	14	22	.14549	1	16	22	.15382	1	18	22	.16216
1	12	23	.13733	1	14	23	.14566	1	16	23	.154	1	18	23	.16233
1	13	0	.1375	1	15	0	.14584	1	17	0	.15417	1	19	0	.1625
1	13	1	.13768	1	15	1	.14601	1	17	1	.15435	1	19	1	.16268
1	13	2	.13785	1	15	2	.14619	1	17	2	.15452	1	19	2	.16285
1	13	3	.13803	1	15	3	.14636	1	17	3	.15469	1	19	3	.16303
1	13	4	.1382	1	15	4	.14653	1	17	4	.15487	1	19	4	.1632
1	13	5	.13837	1	15	5	.14671	1	17	5	.15504	1	19	5	.16337
1	13	6	.13855	1	15	6	.14688	1	17	6	.15521	1	19	6	.16355
1	13	7	.13872	1	15	7	.14705	1	17	7	.15539	1	19	7	.16372
1	13	8	.13889	1	15	8	.14723	1	17	8	.15556	1	19	8	.16389
1	13	9	.13907	1	15	9	.1474	1	17	9	.15573	1	19	9	.16407
1	13	10	.13924	1	15	10	.14757	1	17	10	.15591	1	19	10	.16424
1	13	11	.13941	1	15	11	.14775	1	17	11	.15608	1	19	11	.16441
1	13	12	.13959	1	15	12	.14792	1	17	12	.15625	1	19	12	.16459
1	13	13	.13976	1	15	13	.1481	1	17	13	.15643	1	19	13	.16476
1	13	14	.13994	1	15	14	.14827	1	17	14	.1566	1	19	14	.16494
1	13	15	.14011	1	15	15	.14844	1	17	15	.15678	1	19	15	.16511
1	13	16	.14028	1	15	16	.14862	1	17	16	.15695	1	19	16	.16528
1	13	17	.14046	1	15	17	.14879	1	17	17	.15712	1	19	17	.16546
1	13	18	.14063	1	15	18	.14896	1	17	18	.1573	1	19	18	.16563
1	13	19	.1408	1	15	19	.14914	1	17	19	.15747	1	19	19	.1658
1	13	20	.14098	1	15	20	.14931	1	17	20	.15764	1	19	20	.16598
1	13	21	.14115	1	15	21	.14948	1	17	21	.15782	1	19	21	.16615
1	13	22	.14132	1	15	22	.14966	1	17	22	.15799	1	19	22	.16632
1	13	23	.1415	1	15	23	.14983	1	17	23	.15816	1	19	23	.1665
1	14	0	.14167	1	16	0	.15	1	18	0	.15834	2	0	0	.16667



oz. dwt. grs.    oz. dwt. grs.  
2 : 0 : 1 to 2 : 8 : 0]

## POUND TROY.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
2	0	1	.16685	2	2	1	.17518	2	4	1	.18351	2	6	1	.19185
2	0	2	.16702	2	2	2	.17535	2	4	2	.18369	2	6	2	.19202
2	0	3	.16719	2	2	3	.17553	2	4	3	.18386	2	6	3	.19219
2	0	4	.16737	2	2	4	.1757	2	4	4	.18403	2	6	4	.19237
2	0	5	.16754	2	2	5	.17587	2	4	5	.18421	2	6	5	.19254
2	0	6	.16771	2	2	6	.17605	2	4	6	.18438	2	6	6	.19271
2	0	7	.16789	2	2	7	.17622	2	4	7	.18455	2	6	7	.19289
2	0	8	.16806	2	2	8	.17639	2	4	8	.18473	2	6	8	.19306
2	0	9	.16823	2	2	9	.17657	2	4	9	.1849	2	6	9	.19323
2	0	10	.16841	2	2	10	.17674	2	4	10	.18507	2	6	10	.19341
2	0	11	.16858	2	2	11	.17691	2	4	11	.18525	2	6	11	.19358
2	0	12	.16875	2	2	12	.17709	2	4	12	.18542	2	6	12	.19375
2	0	13	.16893	2	2	13	.17726	2	4	13	.1856	2	6	13	.19393
2	0	14	.1691	2	2	14	.17744	2	4	14	.18577	2	6	14	.19411
2	0	15	.16928	2	2	15	.17761	2	4	15	.18594	2	6	15	.19428
2	0	16	.16945	2	2	16	.17778	2	4	16	.18612	2	6	16	.19445
2	0	17	.16962	2	2	17	.17796	2	4	17	.18629	2	6	17	.19462
2	0	18	.1698	2	2	18	.17813	2	4	18	.18646	2	6	18	.1948
2	0	19	.16997	2	2	19	.1783	2	4	19	.18664	2	6	19	.19497
2	0	20	.17014	2	2	20	.17848	2	4	20	.18681	2	6	20	.19514
2	0	21	.17032	2	2	21	.17865	2	4	21	.18698	2	6	21	.19532
2	0	22	.17049	2	2	22	.17882	2	4	22	.18716	2	6	22	.19549
2	0	23	.17066	2	2	23	.179	2	4	23	.18733	2	6	23	.19566
2	1	0	.17084	2	3	0	.17917	2	5	0	.1875	2	7	0	.19584
2	1	1	.17101	2	3	1	.17935	2	5	1	.18768	2	7	1	.19601
2	1	2	.17119	2	3	2	.17952	2	5	2	.18785	2	7	2	.19619
2	1	3	.17136	2	3	3	.17969	2	5	3	.18803	2	7	3	.19636
2	1	4	.17153	2	3	4	.17987	2	5	4	.1882	2	7	4	.19653
2	1	5	.17171	2	3	5	.18004	2	5	5	.18837	2	7	5	.19671
2	1	6	.17188	2	3	6	.18021	2	5	6	.18855	2	7	6	.19688
2	1	7	.17205	2	3	7	.18039	2	5	7	.18872	2	7	7	.19705
2	1	8	.17223	2	3	8	.18056	2	5	8	.18889	2	7	8	.19723
2	1	9	.1724	2	3	9	.18073	2	5	9	.18907	2	7	9	.1974
2	1	10	.17257	2	3	10	.18091	2	5	10	.18924	2	7	10	.19757
2	1	11	.17275	2	3	11	.18108	2	5	11	.18941	2	7	11	.19775
2	1	12	.17292	2	3	12	.18125	2	5	12	.18959	2	7	12	.19792
2	1	13	.1731	2	3	13	.18143	2	5	13	.18976	2	7	13	.1981
2	1	14	.17327	2	3	14	.1816	2	5	14	.18994	2	7	14	.19827
2	1	15	.17344	2	3	15	.18178	2	5	15	.19011	2	7	15	.19844
2	1	16	.17362	2	3	16	.18195	2	5	16	.19028	2	7	16	.19862
2	1	17	.17379	2	3	17	.18212	2	5	17	.19046	2	7	17	.19879
2	1	18	.17396	2	3	18	.1823	2	5	18	.19063	2	7	18	.19896
2	1	19	.17414	2	3	19	.18247	2	5	19	.1908	2	7	19	.19914
2	1	20	.17431	2	3	20	.18264	2	5	20	.19098	2	7	20	.19931
2	1	21	.17448	2	3	21	.18282	2	5	21	.19115	2	7	21	.19948
2	1	22	.17466	2	3	22	.18299	2	5	22	.19132	2	7	22	.19966
2	1	23	.17483	2	3	23	.18316	2	5	23	.1915	2	7	23	.19983
2	2	0	.175	2	4	0	.18334	2	6	0	.19167	2	8	0	.2

# POUND TROY.

oz. dwt. gr. [2 : 8 : 1 to 2 : 16 : 0

Oz.	Dwts.	Gr.	Decimals.	Oz.	Dwts.	Gr.	Decimals.	Oz.	Dwts.	Gr.	Decimals.	Oz.	Dwts.	Gr.	Decimals.
2	8	1	.20018	2	10	1	.20851	2	12	1	.21685	2	14	1	.22518
2	8	2	.20035	2	10	2	.20869	2	12	2	.21702	2	14	2	.22535
2	8	3	.20053	2	10	3	.20886	2	12	3	.21719	2	14	3	.22553
2	8	4	.2007	2	10	4	.20903	2	12	4	.21737	2	14	4	.2257
2	8	5	.20087	2	10	5	.20921	2	12	5	.21754	2	14	5	.22587
2	8	6	.20105	2	10	6	.20938	2	12	6	.21771	2	14	6	.22605
2	8	7	.20122	2	10	7	.20955	2	12	7	.21789	2	14	7	.22622
2	8	8	.20139	2	10	8	.20973	2	12	8	.21806	2	14	8	.22639
2	8	9	.20157	2	10	9	.2099	2	12	9	.21823	2	14	9	.22657
2	8	10	.20174	2	10	10	.21007	2	12	10	.21841	2	14	10	.22674
2	8	11	.20191	2	10	11	.21025	2	12	11	.21858	2	14	11	.22691
2	8	12	.20209	2	10	12	.21042	2	12	12	.21875	2	14	12	.22709
2	8	13	.20226	2	10	13	.2106	2	12	13	.21893	2	14	13	.22726
2	8	14	.20244	2	10	14	.21077	2	12	14	.2191	2	14	14	.22744
2	8	15	.20261	2	10	15	.21094	2	12	15	.21928	2	14	15	.22761
2	8	16	.20278	2	10	16	.21112	2	12	16	.21945	2	14	16	.22778
2	8	17	.20296	2	10	17	.21129	2	12	17	.21962	2	14	17	.22796
2	8	18	.20313	2	10	18	.21146	2	12	18	.2198	2	14	18	.22813
2	8	19	.2033	2	10	19	.21164	2	12	19	.21997	2	14	19	.2283
2	8	20	.20348	2	10	20	.21181	2	12	20	.22014	2	14	20	.22848
2	8	21	.20365	2	10	21	.21198	2	12	21	.22032	2	14	21	.22865
2	8	22	.20382	2	10	22	.21216	2	12	22	.22049	2	14	22	.22882
2	8	23	.204	2	10	23	.21233	2	12	23	.22066	2	14	23	.229
2	9	0	.20417	2	11	0	.2125	2	13	0	.22084	2	15	0	.22917
2	9	1	.20435	2	11	1	.21268	2	13	1	.22101	2	15	1	.22935
2	9	2	.20452	2	11	2	.21285	2	13	2	.22119	2	15	2	.22952
2	9	3	.20469	2	11	3	.21303	2	13	3	.22136	2	15	3	.22969
2	9	4	.20487	2	11	4	.2132	2	13	4	.22153	2	15	4	.22987
2	9	5	.20504	2	11	5	.21337	2	13	5	.22171	2	15	5	.23004
2	9	6	.20521	2	11	6	.21355	2	13	6	.22188	2	15	6	.23021
2	9	7	.20539	2	11	7	.21372	2	13	7	.22205	2	15	7	.23039
2	9	8	.20556	2	11	8	.21389	2	13	8	.22223	2	15	8	.23056
2	9	9	.20573	2	11	9	.21407	2	13	9	.2224	2	15	9	.23073
2	9	10	.20591	2	11	10	.21424	2	13	10	.22257	2	15	10	.23091
2	9	11	.20608	2	11	11	.21441	2	13	11	.22275	2	15	11	.23108
2	9	12	.20625	2	11	12	.21459	2	13	12	.22292	2	15	12	.23125
2	9	13	.20643	2	11	13	.21476	2	13	13	.2231	2	15	13	.23143
2	9	14	.2066	2	11	14	.21494	2	13	14	.22327	2	15	14	.2316
2	9	15	.20678	2	11	15	.21511	2	13	15	.22344	2	15	15	.23178
2	9	16	.20695	2	11	16	.21528	2	13	16	.22362	2	15	16	.23195
2	9	17	.20712	2	11	17	.21546	2	13	17	.22379	2	15	17	.23212
2	9	18	.2073	2	11	18	.21563	2	13	18	.22396	2	15	18	.2323
2	9	19	.20747	2	11	19	.2158	2	13	19	.22414	2	15	19	.23247
2	9	20	.20764	2	11	20	.21598	2	13	20	.22431	2	15	20	.23264
2	9	21	.20782	2	11	21	.21615	2	13	21	.22448	2	15	21	.23282
2	9	22	.20799	2	11	22	.21632	2	13	22	.22466	2	15	22	.23299
2	9	23	.20816	2	11	23	.2165	2	13	23	.22483	2	15	23	.23316

2 : 16 : 1 to 3 : 4 : 0]

# POUND TROY.

On.	Dwt.	Gra.	Decimals.	On.	Dwt.	Gra.	Decimals.	On.	Dwt.	Gra.	Decimals.	On.	Dwt.	Gra.	Decimals.
2	16	1	.23351	2	18	1	.24185	3	0	1	.25018	3	2	1	.25851
2	16	2	.23360	2	18	2	.24202	3	0	2	.25035	3	2	2	.25860
2	16	3	.23386	2	18	3	.24219	3	0	3	.25053	3	2	3	.25886
2	16	4	.23403	2	18	4	.24237	3	0	4	.2507	3	2	4	.25903
2	16	5	.23421	2	18	5	.24254	3	0	5	.25087	3	2	5	.25921
2	16	6	.23438	2	18	6	.24271	3	0	6	.25105	3	2	6	.25938
2	16	7	.23455	2	18	7	.24289	3	0	7	.25122	3	2	7	.25955
2	16	8	.23473	2	18	8	.24306	3	0	8	.25139	3	2	8	.25973
2	16	9	.2349	2	18	9	.24323	3	0	9	.25157	3	2	9	.2599
2	16	10	.23507	2	18	10	.24341	3	0	10	.25174	3	2	10	.26007
2	16	11	.23525	2	18	11	.24358	3	0	11	.25191	3	2	11	.26025
2	16	12	.23542	2	18	12	.24375	3	0	12	.25209	3	2	12	.26042
2	16	13	.2356	2	18	13	.24393	3	0	13	.25226	3	2	13	.2606
2	16	14	.23577	2	18	14	.2441	3	0	14	.25244	3	2	14	.26077
2	16	15	.23594	2	18	15	.24428	3	0	15	.25261	3	2	15	.26094
2	16	16	.23612	2	18	16	.24445	3	0	16	.25278	3	2	16	.26112
2	16	17	.23629	2	18	17	.24462	3	0	17	.25296	3	2	17	.26129
2	16	18	.23646	2	18	18	.2448	3	0	18	.25313	3	2	18	.26146
2	16	19	.23664	2	18	19	.24497	3	0	19	.2533	3	2	19	.26164
2	16	20	.23681	2	18	20	.24514	3	0	20	.25348	3	2	20	.26181
2	16	21	.23698	2	18	21	.24532	3	0	21	.25365	3	2	21	.26198
2	16	22	.23716	2	18	22	.24549	3	0	22	.25382	3	2	22	.26216
2	16	23	.23733	2	18	23	.24566	3	0	23	.254	3	2	23	.26233
2	17	0	.2375	2	19	0	.24584	3	1	0	.25417	3	3	0	.2625
2	17	1	.23768	2	19	1	.24601	3	1	1	.25435	3	3	1	.26268
2	17	2	.23785	2	19	2	.24619	3	1	2	.25452	3	3	2	.26285
2	17	3	.23803	2	19	3	.24636	3	1	3	.25469	3	3	3	.26303
2	17	4	.2382	2	19	4	.24653	3	1	4	.25487	3	3	4	.2632
2	17	5	.23837	2	19	5	.24671	3	1	5	.25504	3	3	5	.26337
2	17	6	.23855	2	19	6	.24688	3	1	6	.25521	3	3	6	.26355
2	17	7	.23872	2	19	7	.24705	3	1	7	.25539	3	3	7	.26372
2	17	8	.23889	2	19	8	.24723	3	1	8	.25556	3	3	8	.26389
2	17	9	.23907	2	19	9	.2474	3	1	9	.25573	3	3	9	.26407
2	17	10	.23924	2	19	10	.24757	3	1	10	.25591	3	3	10	.26424
2	17	11	.23941	2	19	11	.24775	3	1	11	.25608	3	3	11	.26441
2	17	12	.23959	2	19	12	.24792	3	1	12	.25625	3	3	12	.26459
2	17	13	.23976	2	19	13	.2481	3	1	13	.25643	3	3	13	.26476
2	17	14	.23994	2	19	14	.24827	3	1	14	.2566	3	3	14	.26494
2	17	15	.24011	2	19	15	.24844	3	1	15	.25678	3	3	15	.26511
2	17	16	.24028	2	19	16	.24862	3	1	16	.25695	3	3	16	.26528
2	17	17	.24046	2	19	17	.24879	3	1	17	.25712	3	3	17	.26546
2	17	18	.24063	2	19	18	.24896	3	1	18	.2573	3	3	18	.26563
2	17	19	.2408	2	19	19	.24914	3	1	19	.25747	3	3	19	.2658
2	17	20	.24098	2	19	20	.24931	3	1	20	.25764	3	3	20	.26598
2	17	21	.24115	2	19	21	.24948	3	1	21	.25782	3	3	21	.26615
2	17	22	.24132	2	19	22	.24966	3	1	22	.25799	3	3	22	.26632
2	17	23	.2415	2	19	23	.24983	3	1	23	.25816	3	3	23	.2665
2	18	0	.24167	3	0	0	.25	3	2	0	.25834	3	4	0	.26667

# POUND TROY.

<sup>oz.</sup> <sup>dwt.</sup> <sup>grs.</sup> <sup>oz.</sup> <sup>dwt.</sup> <sup>grs.</sup>  
[3 : 4 : 1 to 3 : 12 : 0

Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.
3	4	1	.26685	3	6	1	.27518	3	8	1	.28351	3	10	1	.29185
3	4	2	.26702	3	6	2	.27535	3	8	2	.28369	3	10	2	.29202
3	4	3	.26719	3	6	3	.27553	3	8	3	.28386	3	10	3	.29219
3	4	4	.26737	3	6	4	.2757	3	8	4	.28403	3	10	4	.29237
3	4	5	.26754	3	6	5	.27587	3	8	5	.28421	3	10	5	.29254
3	4	6	.26771	3	6	6	.27605	3	8	6	.28438	3	10	6	.29271
3	4	7	.26789	3	6	7	.27622	3	8	7	.28455	3	10	7	.29289
3	4	8	.26806	3	6	8	.27639	3	8	8	.28473	3	10	8	.29306
3	4	9	.26823	3	6	9	.27657	3	8	9	.2849	3	10	9	.29323
3	4	10	.26841	3	6	10	.27674	3	8	10	.28507	3	10	10	.29341
3	4	11	.26858	3	6	11	.27691	3	8	11	.28525	3	10	11	.29358
3	4	12	.26875	3	6	12	.27709	3	8	12	.28542	3	10	12	.29375
3	4	13	.26893	3	6	13	.27726	3	8	13	.2856	3	10	13	.29393
3	4	14	.2691	3	6	14	.27744	3	8	14	.28577	3	10	14	.2941
3	4	15	.26928	3	6	15	.27761	3	8	15	.28594	3	10	15	.29428
3	4	16	.26945	3	6	16	.27778	3	8	16	.28612	3	10	16	.29445
3	4	17	.26962	3	6	17	.27796	3	8	17	.28629	3	10	17	.29462
3	4	18	.2698	3	6	18	.27813	3	8	18	.28646	3	10	18	.2948
3	4	19	.26997	3	6	19	.2783	3	8	19	.28664	3	10	19	.29497
3	4	20	.27014	3	6	20	.27848	3	8	20	.28681	3	10	20	.29514
3	4	21	.27032	3	6	21	.27865	3	8	21	.28698	3	10	21	.29532
3	4	22	.27049	3	6	22	.27882	3	8	22	.28716	3	10	22	.29549
3	4	23	.27066	3	6	23	.279	3	8	23	.28733	3	10	23	.29566
3	5	0	.27084	3	7	0	.27917	3	9	0	.2875	3	11	0	.29584
3	5	1	.27101	3	7	1	.27935	3	9	1	.28768	3	11	1	.29601
3	5	2	.27119	3	7	2	.27952	3	9	2	.28785	3	11	2	.29619
3	5	3	.27136	3	7	3	.27969	3	9	3	.28803	3	11	3	.29636
3	5	4	.27153	3	7	4	.27987	3	9	4	.2882	3	11	4	.29653
3	5	5	.27171	3	7	5	.28004	3	9	5	.28837	3	11	5	.29671
3	5	6	.27188	3	7	6	.28021	3	9	6	.28855	3	11	6	.29688
3	5	7	.27205	3	7	7	.28039	3	9	7	.28872	3	11	7	.29705
3	5	8	.27223	3	7	8	.28056	3	9	8	.28889	3	11	8	.29723
3	5	9	.2724	3	7	9	.28073	3	9	9	.28907	3	11	9	.2974
3	5	10	.27257	3	7	10	.28091	3	9	10	.28924	3	11	10	.29757
3	5	11	.27275	3	7	11	.28108	3	9	11	.28941	3	11	11	.29775
3	5	12	.27292	3	7	12	.28125	3	9	12	.28959	3	11	12	.29792
3	5	13	.2731	3	7	13	.28143	3	9	13	.28976	3	11	13	.2981
3	5	14	.27327	3	7	14	.2816	3	9	14	.28994	3	11	14	.29827
3	5	15	.27344	3	7	15	.28178	3	9	15	.29011	3	11	15	.29844
3	5	16	.27362	3	7	16	.28195	3	9	16	.29028	3	11	16	.29862
3	5	17	.27379	3	7	17	.28212	3	9	17	.29046	3	11	17	.29879
3	5	18	.27396	3	7	18	.2823	3	9	18	.29063	3	11	18	.29896
3	5	19	.27414	3	7	19	.28247	3	9	19	.2908	3	11	19	.29914
3	5	20	.27431	3	7	20	.28264	3	9	20	.29098	3	11	20	.29931
3	5	21	.27448	3	7	21	.28282	3	9	21	.29115	3	11	21	.29948
3	5	22	.27466	3	7	22	.28299	3	9	22	.29132	3	11	22	.29966
3	5	23	.27483	3	7	23	.28316	3	9	23	.2915	3	11	23	.29983
3	6	0	.275	3	8	0	.28334	3	10	0	.29167	3	12	0	.3

oz dwt grs  
3 : 12 : 1 to 4 : 0 : 0]

# POUND TROY.

Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.
3	12	1	.30018	3	14	1	.30851	3	16	1	.31685	3	18	1	.32518
3	12	2	.30035	3	14	2	.30869	3	16	2	.31702	3	18	2	.32535
3	12	3	.30053	3	14	3	.30886	3	16	3	.31719	3	18	3	.32553
3	12	4	.3007	3	14	4	.30903	3	16	4	.31737	3	18	4	.3257
3	12	5	.30087	3	14	5	.30921	3	16	5	.31754	3	18	5	.32587
3	12	6	.30105	3	14	6	.30938	3	16	6	.31771	3	18	6	.32605
3	12	7	.30122	3	14	7	.30955	3	16	7	.31789	3	18	7	.32622
3	12	8	.30139	3	14	8	.30973	3	16	8	.31806	3	18	8	.32639
3	12	9	.30157	3	14	9	.3099	3	16	9	.31823	3	18	9	.32657
3	12	10	.30174	3	14	10	.31007	3	16	10	.31841	3	18	10	.32674
3	12	11	.30191	3	14	11	.31025	3	16	11	.31858	3	18	11	.32691
3	12	12	.30209	3	14	12	.31042	3	16	12	.31875	3	18	12	.32709
3	12	13	.30226	3	14	13	.3106	3	16	13	.31893	3	18	13	.32726
3	12	14	.30244	3	14	14	.31077	3	16	14	.3191	3	18	14	.32741
3	12	15	.30261	3	14	15	.31094	3	16	15	.31928	3	18	15	.32761
3	12	16	.30278	3	14	16	.31112	3	16	16	.31945	3	18	16	.32778
3	12	17	.30296	3	14	17	.31129	3	16	17	.31962	3	18	17	.32796
3	12	18	.30313	3	14	18	.31146	3	16	18	.3198	3	18	18	.32813
3	12	19	.3033	3	14	19	.31161	3	16	19	.31997	3	18	19	.3283
3	12	20	.30348	3	14	20	.31181	3	16	20	.32014	3	18	20	.32848
3	12	21	.30365	3	14	21	.31198	3	16	21	.32032	3	18	21	.32865
3	12	22	.30382	3	14	22	.31216	3	16	22	.32049	3	18	22	.32882
3	12	23	.304	3	14	23	.31233	3	16	23	.32066	3	18	23	.329
3	13	0	.30417	3	15	0	.3125	3	17	0	.32084	3	19	0	.32917
3	13	1	.30435	3	15	1	.31268	3	17	1	.32101	3	19	1	.32935
3	13	2	.30452	3	15	2	.31285	3	17	2	.32119	3	19	2	.32952
3	13	3	.30469	3	15	3	.31303	3	17	3	.32136	3	19	3	.32969
3	13	4	.30487	3	15	4	.3132	3	17	4	.32153	3	19	4	.32987
3	13	5	.30504	3	15	5	.31337	3	17	5	.32171	3	19	5	.33004
3	13	6	.30521	3	15	6	.31355	3	17	6	.32188	3	19	6	.33021
3	13	7	.30539	3	15	7	.31372	3	17	7	.32205	3	19	7	.33039
3	13	8	.30556	3	15	8	.31389	3	17	8	.32223	3	19	8	.33056
3	13	9	.30573	3	15	9	.31407	3	17	9	.3224	3	19	9	.33073
3	13	10	.30591	3	15	10	.31424	3	17	10	.32257	3	19	10	.33091
3	13	11	.30608	3	15	11	.31441	3	17	11	.32275	3	19	11	.33108
3	13	12	.30625	3	15	12	.31459	3	17	12	.32292	3	19	12	.33125
3	13	13	.30643	3	15	13	.31476	3	17	13	.3231	3	19	13	.33143
3	13	14	.3066	3	15	14	.31494	3	17	14	.32327	3	19	14	.3316
3	13	15	.30678	3	15	15	.31511	3	17	15	.32344	3	19	15	.33178
3	13	16	.306	3	15	16	.31528	3	17	16	.32362	3	19	16	.33195
3	13	17	.3071	3	15	17	.31546	3	17	17	.32379	3	19	17	.33212
3	13	18	.3073	3	15	18	.31563	3	17	18	.32396	3	19	18	.3323
3	13	19	.30747	3	15	19	.3158	3	17	19	.32414	3	19	19	.33247
3	13	20	.30764	3	15	20	.31598	3	17	20	.32431	3	19	20	.33264
3	13	21	.30782	3	15	21	.31615	3	17	21	.32448	3	19	21	.33282
3	13	22	.30799	3	15	22	.31632	3	17	22	.32466	3	19	22	.33299
3	13	23	.30816	3	15	23	.3165	3	17	23	.32483	3	19	23	.33316
3	14	0	.30834	3	16	0	.31667	3	18	0	.325	4	0	0	.33334

## POUND TROY.

 gr. dwts. grs.    oz. dwts. grs.  
 [4 : 0 : 1 to 4 : 8 : 0

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
4	0	1	.33351	4	2	1	.34185	4	4	1	.35018	4	6	1	.35851
4	0	2	.33369	4	2	2	.34202	4	4	2	.35035	4	6	2	.35869
4	0	3	.33386	4	2	3	.34219	4	4	3	.35053	4	6	3	.35886
4	0	4	.33403	4	2	4	.34237	4	4	4	.3507	4	6	4	.35903
4	0	5	.33421	4	2	5	.34254	4	4	5	.35087	4	6	5	.35921
4	0	6	.33438	4	2	6	.34271	4	4	6	.35105	4	6	6	.35938
4	0	7	.33455	4	2	7	.34289	4	4	7	.35122	4	6	7	.35955
4	0	8	.33473	4	2	8	.34306	4	4	8	.35139	4	6	8	.35973
4	0	9	.3349	4	2	9	.34323	4	4	9	.35157	4	6	9	.3599
4	0	10	.33507	4	2	10	.34341	4	4	10	.35174	4	6	10	.36007
4	0	11	.33525	4	2	11	.34358	4	4	11	.35191	4	6	11	.36025
4	0	12	.33542	4	2	12	.34375	4	4	12	.35209	4	6	12	.36042
4	0	13	.3356	4	2	13	.34393	4	4	13	.35226	4	6	13	.3606
4	0	14	.33577	4	2	14	.3441	4	4	14	.35244	4	6	14	.36077
4	0	15	.33594	4	2	15	.34428	4	4	15	.35261	4	6	15	.36094
4	0	16	.33612	4	2	16	.34445	4	4	16	.35278	4	6	16	.36112
4	0	17	.33629	4	2	17	.34462	4	4	17	.35296	4	6	17	.36129
4	0	18	.33646	4	2	18	.3448	4	4	18	.35313	4	6	18	.36146
4	0	19	.33664	4	2	19	.34497	4	4	19	.3533	4	6	19	.36164
4	0	20	.33681	4	2	20	.34514	4	4	20	.35348	4	6	20	.36181
4	0	21	.33698	4	2	21	.34532	4	4	21	.35365	4	6	21	.36198
4	0	22	.33716	4	2	22	.34549	4	4	22	.35382	4	6	22	.36216
4	0	23	.33733	4	2	23	.34566	4	4	23	.354	4	6	23	.36233
4	1	0	.3375	4	3	0	.34584	4	5	0	.35417	4	7	0	.3625
4	1	1	.33768	4	3	1	.34601	4	5	1	.35435	4	7	1	.36268
4	1	2	.33785	4	3	2	.34619	4	5	2	.35452	4	7	2	.36285
4	1	3	.33803	4	3	3	.34636	4	5	3	.35469	4	7	3	.36303
4	1	4	.3382	4	3	4	.34653	4	5	4	.35487	4	7	4	.3632
4	1	5	.33837	4	3	5	.34671	4	5	5	.35504	4	7	5	.36337
4	1	6	.33855	4	3	6	.34688	4	5	6	.35521	4	7	6	.36355
4	1	7	.33872	4	3	7	.34705	4	5	7	.35539	4	7	7	.36372
4	1	8	.33889	4	3	8	.34723	4	5	8	.35556	4	7	8	.36389
4	1	9	.33907	4	3	9	.3474	4	5	9	.35573	4	7	9	.36407
4	1	10	.33924	4	3	10	.34757	4	5	10	.35591	4	7	10	.36424
4	1	11	.33941	4	3	11	.34775	4	5	11	.35608	4	7	11	.36441
4	1	12	.33959	4	3	12	.34792	4	5	12	.35625	4	7	12	.36459
4	1	13	.33976	4	3	13	.3481	4	5	13	.35643	4	7	13	.36476
4	1	14	.33994	4	3	14	.34827	4	5	14	.3566	4	7	14	.36494
4	1	15	.34011	4	3	15	.34844	4	5	15	.35678	4	7	15	.36511
4	1	16	.34028	4	3	16	.34862	4	5	16	.35695	4	7	16	.36528
4	1	17	.34046	4	3	17	.34879	4	5	17	.35712	4	7	17	.36546
4	1	18	.34063	4	3	18	.34896	4	5	18	.3573	4	7	18	.36563
4	1	19	.3408	4	3	19	.34914	4	5	19	.35747	4	7	19	.3658
4	1	20	.34098	4	3	20	.34931	4	5	20	.35764	4	7	20	.36598
4	1	21	.34115	4	3	21	.34948	4	5	21	.35782	4	7	21	.36615
4	1	22	.34132	4	3	22	.34966	4	5	22	.35799	4	7	22	.36632
4	1	23	.3415	4	3	23	.34983	4	5	23	.35816	4	7	23	.3665
4	2	0	.34167	4	4	0	.35	4	6	0	.35834	4	8	0	.36667

oz. dwts. grs.    oz. dwts. grs.  
4 : 8 : 1 to 4 : 16 : 0]

# POUND TROY.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
4	8	1	.36685	4	10	1	.37518	4	12	1	.38351	4	14	1	.39185
4	8	2	.36702	4	10	2	.37535	4	12	2	.38369	4	14	2	.39202
4	8	3	.36719	4	10	3	.37553	4	12	3	.38386	4	14	3	.39219
4	8	4	.36737	4	10	4	.3757	4	12	4	.38403	4	14	4	.39237
4	8	5	.36754	4	10	5	.37587	4	12	5	.38421	4	14	5	.39254
4	8	6	.36771	4	10	6	.37605	4	12	6	.38438	4	14	6	.39271
4	8	7	.36789	4	10	7	.37622	4	12	7	.38455	4	14	7	.39289
4	8	8	.36806	4	10	8	.37639	4	12	8	.38473	4	14	8	.39306
4	8	9	.36823	4	10	9	.37657	4	12	9	.3849	4	14	9	.39323
4	8	10	.36841	4	10	10	.37674	4	12	10	.38507	4	14	10	.39341
4	8	11	.36858	4	10	11	.37691	4	12	11	.38525	4	14	11	.39358
4	8	12	.36875	4	10	12	.37709	4	12	12	.38542	4	14	12	.39375
4	8	13	.36893	4	10	13	.37726	4	12	13	.3856	4	14	13	.39393
4	8	14	.3691	4	10	14	.37744	4	12	14	.38577	4	14	14	.3941
4	8	15	.36928	4	10	15	.37761	4	12	15	.38594	4	14	15	.39428
4	8	16	.36945	4	10	16	.37778	4	12	16	.38612	4	14	16	.39445
4	8	17	.36962	4	10	17	.37796	4	12	17	.38629	4	14	17	.39462
4	8	18	.3698	4	10	18	.37813	4	12	18	.38646	4	14	18	.3948
4	8	19	.36997	4	10	19	.3783	4	12	19	.38664	4	14	19	.39497
4	8	20	.37014	4	10	20	.37848	4	12	20	.38681	4	14	20	.39514
4	8	21	.37032	4	10	21	.37865	4	12	21	.38698	4	14	21	.39532
4	8	22	.37049	4	10	22	.37882	4	12	22	.38716	4	14	22	.39549
4	8	23	.37066	4	10	23	.379	4	12	23	.38733	4	14	23	.39566
4	9	0	.37084	4	11	0	.37917	4	13	0	.3875	4	15	0	.39584
4	9	1	.37101	4	11	1	.3793	4	13	1	.38768	4	15	1	.39601
4	9	2	.37119	4	11	2	.37952	4	13	2	.38785	4	15	2	.39619
4	9	3	.37136	4	11	3	.37969	4	13	3	.38803	4	15	3	.39636
4	9	4	.37153	4	11	4	.37987	4	13	4	.3882	4	15	4	.39653
4	9	5	.37171	4	11	5	.38004	4	13	5	.38837	4	15	5	.39671
4	9	6	.37188	4	11	6	.38021	4	13	6	.38855	4	15	6	.39688
4	9	7	.37205	4	11	7	.38039	4	13	7	.38872	4	15	7	.39705
4	9	8	.37223	4	11	8	.38056	4	13	8	.38889	4	15	8	.39723
4	9	9	.3724	4	11	9	.38073	4	13	9	.38907	4	15	9	.3974
4	9	10	.37257	4	11	10	.38091	4	13	10	.38924	4	15	10	.39757
4	9	11	.37275	4	11	11	.38108	4	13	11	.38941	4	15	11	.39775
4	9	12	.37292	4	11	12	.38125	4	13	12	.38959	4	15	12	.39792
4	9	13	.3731	4	11	13	.38143	4	13	13	.38976	4	15	13	.3981
4	9	14	.37327	4	11	14	.3816	4	13	14	.38994	4	15	14	.39827
4	9	15	.37344	4	11	15	.38178	4	13	15	.39011	4	15	15	.39844
4	9	16	.37362	4	11	16	.38195	4	13	16	.39028	4	15	16	.39862
4	9	17	.37379	4	11	17	.38212	4	13	17	.39046	4	15	17	.39879
4	9	18	.37396	4	11	18	.3823	4	13	18	.39063	4	15	18	.39896
4	9	19	.37414	4	11	19	.38247	4	13	19	.3908	4	15	19	.39914
4	9	20	.37431	4	11	20	.38264	4	13	20	.39098	4	15	20	.39931
4	9	21	.37448	4	11	21	.38282	4	13	21	.39115	4	15	21	.39948
4	9	22	.37466	4	11	22	.38299	4	13	22	.39132	4	15	22	.39966
4	9	23	.37483	4	11	23	.38316	4	13	23	.3915	4	15	23	.39983
4	10	0	.375	4	12	0	.38334	4	14	0	.39167	4	16	0	.4



# POUND TROY.

oz. dwts. grs. oz. dwts. grs.  
[4 : 16 : 1 to 5 : 4 : 0

Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.
4	16	1	.40018		4	18	1	.40851		5	0	1	.41685		5	2	1	.42518
4	16	2	.40035		4	18	2	.40869		5	0	2	.41702		5	2	2	.42535
4	16	3	.40053		4	18	3	.40886		5	0	3	.41719		5	2	3	.42553
4	16	4	.4007		4	18	4	.40903		5	0	4	.41737		5	2	4	.4257
4	16	5	.40087		4	18	5	.40921		5	0	5	.41754		5	2	5	.42587
4	16	6	.40105		4	18	6	.40938		5	0	6	.41771		5	2	6	.42605
4	16	7	.40122		4	18	7	.40955		5	0	7	.41789		5	2	7	.42622
4	16	8	.40139		4	18	8	.40973		5	0	8	.41806		5	2	8	.42639
4	16	9	.40157		4	18	9	.4099		5	0	9	.41823		5	2	9	.42657
4	16	10	.40174		4	18	10	.41007		5	0	10	.41841		5	2	10	.42674
4	16	11	.40191		4	18	11	.41025		5	0	11	.41858		5	2	11	.42691
4	16	12	.40209		4	18	12	.41042		5	0	12	.41875		5	2	12	.42709
4	16	13	.40226		4	18	13	.4106		5	0	13	.41893		5	2	13	.42726
4	16	14	.40244		4	18	14	.41077		5	0	14	.4191		5	2	14	.42744
4	16	15	.40261		4	18	15	.41094		5	0	15	.41928		5	2	15	.42761
4	16	16	.40278		4	18	16	.41112		5	0	16	.41945		5	2	16	.42778
4	16	17	.40296		4	18	17	.41129		5	0	17	.41962		5	2	17	.42796
4	16	18	.4031		4	18	18	.41146		5	0	18	.4198		5	2	18	.42813
4	16	19	.403		4	18	19	.41164		5	0	19	.41997		5	2	19	.4283
4	16	20	.40316		4	18	20	.41181		5	0	20	.42014		5	2	20	.42848
4	16	21	.40335		4	18	21	.41198		5	0	21	.42032		5	2	21	.42865
4	16	22	.40352		4	18	22	.41216		5	0	22	.42049		5	2	22	.42882
4	16	23	.404		4	18	23	.41233		5	0	23	.42066		5	2	23	.429
4	17	0	.40417		4	19	0	.4125		5	1	0	.42084		5	3	0	.42917
4	17	1	.40435		4	19	1	.41268		5	1	1	.42101		5	3	1	.42935
4	17	2	.40452		4	19	2	.41285		5	1	2	.42119		5	3	2	.42952
4	17	3	.40469		4	19	3	.41303		5	1	3	.42136		5	3	3	.42969
4	17	4	.40487		4	19	4	.4132		5	1	4	.42153		5	3	4	.42987
4	17	5	.40504		4	19	5	.41337		5	1	5	.42171		5	3	5	.43001
4	17	6	.40521		4	19	6	.41355		5	1	6	.42188		5	3	6	.43021
4	17	7	.40539		4	19	7	.41372		5	1	7	.42205		5	3	7	.43039
4	17	8	.40556		4	19	8	.41389		5	1	8	.42223		5	3	8	.43056
4	17	9	.40573		4	19	9	.41407		5	1	9	.4224		5	3	9	.43073
4	17	10	.40591		4	19	10	.41424		5	1	10	.42257		5	3	10	.43091
4	17	11	.40608		4	19	11	.41441		5	1	11	.42275		5	3	11	.43108
4	17	12	.40625		4	19	12	.41459		5	1	12	.42292		5	3	12	.43125
4	17	13	.40643		4	19	13	.41476		5	1	13	.4231		5	3	13	.43143
4	17	14	.4066		4	19	14	.41494		5	1	14	.42327		5	3	14	.4316
4	17	15	.40678		4	19	15	.41511		5	1	15	.42344		5	3	15	.43178
4	17	16	.40695		4	19	16	.41528		5	1	16	.42362		5	3	16	.43195
4	17	17	.40712		4	19	17	.41546		5	1	17	.42379		5	3	17	.43212
4	17	18	.4073		4	19	18	.41563		5	1	18	.42396		5	3	18	.4323
4	17	19	.40747		4	19	19	.4158		5	1	19	.42414		5	3	19	.43247
4	17	20	.40764		4	19	20	.41598		5	1	20	.42431		5	3	20	.43264
4	17	21	.40782		4	19	21	.41615		5	1	21	.42448		5	3	21	.43282
4	17	22	.40799		4	19	22	.41632		5	1	22	.42466		5	3	22	.43299
4	17	23	.40816		4	19	23	.4165		5	1	23	.42483		5	3	23	.43316
4	18	0	.40834		5	0	0	.41667		5	2	0	.425		5	4	0	.43334



oz. dwts. grs.      oz. dwts. grs.  
5 : 4 : 1 to 5 : 12 : 0]

# POUND TROY.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
5	4	1	.43351	5	6	1	.44185	5	8	1	.45018	5	10	1	.45851
5	4	2	.43369	5	6	2	.44202	5	8	2	.45035	5	10	2	.45869
5	4	3	.43386	5	6	3	.44219	5	8	3	.45053	5	10	3	.45886
5	4	4	.43403	5	6	4	.44237	5	8	4	.4507	5	10	4	.45903
5	4	5	.43421	5	6	5	.44254	5	8	5	.45087	5	10	5	.45921
5	4	6	.43438	5	6	6	.44271	5	8	6	.45105	5	10	6	.45938
5	4	7	.43455	5	6	7	.44289	5	8	7	.45122	5	10	7	.45955
5	4	8	.43473	5	6	8	.44306	5	8	8	.45139	5	10	8	.45973
5	4	9	.4349	5	6	9	.44323	5	8	9	.45157	5	10	9	.4599
5	4	10	.43507	5	6	10	.44341	5	8	10	.45174	5	10	10	.46007
5	4	11	.43525	5	6	11	.44358	5	8	11	.45191	5	10	11	.46025
5	4	12	.43542	5	6	12	.44375	5	8	12	.45209	5	10	12	.46042
5	4	13	.4356	5	6	13	.44393	5	8	13	.45226	5	10	13	.4606
5	4	14	.43577	5	6	14	.4441	5	8	14	.45244	5	10	14	.46077
5	4	15	.43594	5	6	15	.44428	5	8	15	.45261	5	10	15	.46094
5	4	16	.43612	5	6	16	.44445	5	8	16	.45278	5	10	16	.46112
5	4	17	.43629	5	6	17	.44462	5	8	17	.45296	5	10	17	.46129
5	4	18	.43646	5	6	18	.4448	5	8	18	.45313	5	10	18	.46146
5	4	19	.43664	5	6	19	.44497	5	8	19	.4533	5	10	19	.46164
5	4	20	.43681	5	6	20	.44514	5	8	20	.45348	5	10	20	.46181
5	4	21	.43698	5	6	21	.44532	5	8	21	.45365	5	10	21	.46198
5	4	22	.43716	5	6	22	.44549	5	8	22	.45382	5	10	22	.46216
5	4	23	.43733	5	6	23	.44566	5	8	23	.454	5	10	23	.46233
5	5	0	.4375	5	7	0	.44584	5	9	0	.45417	5	11	0	.4625
5	5	1	.43768	5	7	1	.44601	5	9	1	.45435	5	11	1	.46268
5	5	2	.43785	5	7	2	.44619	5	9	2	.45452	5	11	2	.46285
5	5	3	.43803	5	7	3	.44636	5	9	3	.45469	5	11	3	.46303
5	5	4	.4382	5	7	4	.44653	5	9	4	.45487	5	11	4	.4632
5	5	5	.43837	5	7	5	.44671	5	9	5	.45504	5	11	5	.46337
5	5	6	.43855	5	7	6	.44688	5	9	6	.45521	5	11	6	.46355
5	5	7	.43872	5	7	7	.44705	5	9	7	.45539	5	11	7	.46372
5	5	8	.43889	5	7	8	.44723	5	9	8	.45556	5	11	8	.46389
5	5	9	.43907	5	7	9	.4474	5	9	9	.45573	5	11	9	.46407
5	5	10	.43924	5	7	10	.44757	5	9	10	.45591	5	11	10	.46424
5	5	11	.43941	5	7	11	.44775	5	9	11	.45608	5	11	11	.46441
5	5	12	.43959	5	7	12	.44792	5	9	12	.45625	5	11	12	.46459
5	5	13	.43976	5	7	13	.4481	5	9	13	.45643	5	11	13	.46476
5	5	14	.43993	5	7	14	.44827	5	9	14	.4566	5	11	14	.46494
5	5	15	.44011	5	7	15	.44844	5	9	15	.45678	5	11	15	.46511
5	5	16	.44028	5	7	16	.44862	5	9	16	.45695	5	11	16	.46528
5	5	17	.44046	5	7	17	.44879	5	9	17	.45712	5	11	17	.46546
5	5	18	.44063	5	7	18	.44896	5	9	18	.4573	5	11	18	.46563
5	5	19	.4408	5	7	19	.44914	5	9	19	.45747	5	11	19	.4658
5	5	20	.44098	5	7	20	.44931	5	9	20	.45764	5	11	20	.46598
5	5	21	.44115	5	7	21	.44948	5	9	21	.45782	5	11	21	.46615
5	5	22	.44132	5	7	22	.44966	5	9	22	.45799	5	11	22	.46632
5	5	23	.4415	5	7	23	.44983	5	9	23	.45816	5	11	23	.4665
5	6	0	.44167	5	8	0	.45	5	10	0	.45834	5	12	0	.46667

## POUND TROY.

$$\begin{matrix} \text{oz.} & \text{dwts.} & \text{grs.} & \text{cs.} & \text{dwts.} & \text{grs.} \\ 5 : 12 : 1 & \text{to} & 6 : 0 : 0 \end{matrix}$$

Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.
5	12	1	.46685		5	14	1	.47518		5	16	1	.48351		5	18	1	.49185
5	12	2	.46702		5	14	2	.47535		5	16	2	.48369		5	18	2	.49202
5	12	3	.46719		5	14	3	.47553		5	16	3	.48386		5	18	3	.49219
5	12	4	.46737		5	14	4	.4757		5	16	4	.48403		5	18	4	.49237
5	12	5	.46754		5	14	5	.47587		5	16	5	.48421		5	18	5	.49254
5	12	6	.46771		5	14	6	.47605		5	16	6	.48438		5	18	6	.49271
5	12	7	.46789		5	14	7	.47622		5	16	7	.48455		5	18	7	.49289
5	12	8	.46806		5	14	8	.47639		5	16	8	.48473		5	18	8	.49306
5	12	9	.46823		5	14	9	.47657		5	16	9	.4849		5	18	9	.49323
5	12	10	.46841		5	14	10	.47674		5	16	10	.48507		5	18	10	.49341
5	12	11	.46858		5	14	11	.47691		5	16	11	.48525		5	18	11	.49358
5	12	12	.46875		5	14	12	.47709		5	16	12	.48542		5	18	12	.49375
5	12	13	.46893		5	14	13	.47726		5	16	13	.4856		5	18	13	.49393
5	12	14	.4691		5	14	14	.47744		5	16	14	.48577		5	18	14	.4941
5	12	15	.46928		5	14	15	.47761		5	16	15	.48594		5	18	15	.49428
5	12	16	.46945		5	14	16	.47778		5	16	16	.48612		5	18	16	.49445
5	12	17	.46962		5	14	17	.47796		5	16	17	.48629		5	18	17	.49462
5	12	18	.4698		5	14	18	.47813		5	16	18	.48646		5	18	18	.4948
5	12	19	.46997		5	14	19	.4783		5	16	19	.48664		5	18	19	.49497
5	12	20	.47014		5	14	20	.47848		5	16	20	.48681		5	18	20	.49514
5	12	21	.47032		5	14	21	.47865		5	16	21	.48698		5	18	21	.49532
5	12	22	.47049		5	14	22	.47882		5	16	22	.48716		5	18	22	.49549
5	12	23	.47066		5	14	23	.479		5	16	23	.48733		5	18	23	.49566
5	13	0	.47084		5	15	0	.47917		5	17	0	.4875		5	19	0	.49584
5	13	1	.47101		5	15	1	.47935		5	17	1	.48768		5	19	1	.49601
5	13	2	.47119		5	15	2	.47952		5	17	2	.48785		5	19	2	.49619
5	13	3	.47136		5	15	3	.47969		5	17	3	.48803		5	19	3	.49636
5	13	4	.47153		5	15	4	.47987		5	17	4	.4882		5	19	4	.49653
5	13	5	.47171		5	15	5	.48004		5	17	5	.48837		5	19	5	.49671
5	13	6	.47188		5	15	6	.48021		5	17	6	.48855		5	19	6	.49688
5	13	7	.47205		5	15	7	.48039		5	17	7	.48872		5	19	7	.49705
5	13	8	.47223		5	15	8	.48056		5	17	8	.48889		5	19	8	.49723
5	13	9	.4724		5	15	9	.48073		5	17	9	.48907		5	19	9	.4974
5	13	10	.47257		5	15	10	.48091		5	17	10	.48924		5	19	10	.49757
5	13	11	.47275		5	15	11	.48108		5	17	11	.48941		5	19	11	.49775
5	13	12	.47292		5	15	12	.48125		5	17	12	.48959		5	19	12	.49792
5	13	13	.4731		5	15	13	.48143		5	17	13	.48976		5	19	13	.4981
5	13	14	.47327		5	15	14	.4816		5	17	14	.48994		5	19	14	.49827
5	13	15	.47344		5	15	15	.48178		5	17	15	.49011		5	19	15	.49844
5	13	16	.47362		5	15	16	.48195		5	17	16	.49028		5	19	16	.49862
5	13	17	.47379		5	15	17	.48212		5	17	17	.49046		5	19	17	.49879
5	13	18	.47396		5	15	18	.4823		5	17	18	.49063		5	19	18	.49896
5	13	19	.47414		5	15	19	.48247		5	17	19	.4908		5	19	19	.49914
5	13	20	.47431		5	15	20	.48264		5	17	20	.49098		5	19	20	.49931
5	13	21	.47448		5	15	21	.48282		5	17	21	.49115		5	19	21	.49948
5	13	22	.47466		5	15	22	.48299		5	17	22	.49132		5	19	22	.49966
5	13	23	.47483		5	15	23	.48316		5	17	23	.4915		5	19	23	.49983
5	14	0	.475		5	16	0	.48334		5	18	0	.49167		6	0	0	.5

oz. dwts. grs.    oz. dwts. grs.  
6 : 0 : 1 to 6 : 8 : 0]

# POUND TROY.

Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.
6	0	1	.50018		6	2	1	.50851		6	4	1	.51685		6	6	1	.52518
6	0	2	.50035		6	2	2	.50869		6	4	2	.51702		6	6	2	.52535
6	0	3	.50053		6	2	3	.50886		6	4	3	.51719		6	6	3	.52553
6	0	4	.5007		6	2	4	.50903		6	4	4	.51737		6	6	4	.5257
6	0	5	.50087		6	2	5	.50921		6	4	5	.51754		6	6	5	.52587
6	0	6	.50105		6	2	6	.50938		6	4	6	.51771		6	6	6	.52605
6	0	7	.50122		6	2	7	.50955		6	4	7	.51789		6	6	7	.52622
6	0	8	.50139		6	2	8	.50973		6	4	8	.51806		6	6	8	.52639
6	0	9	.50157		6	2	9	.5099		6	4	9	.51823		6	6	9	.52657
6	0	10	.50174		6	2	10	.51007		6	4	10	.51841		6	6	10	.52674
6	0	11	.50191		6	2	11	.51025		6	4	11	.51858		6	6	11	.52691
6	0	12	.50209		6	2	12	.51042		6	4	12	.51875		6	6	12	.52709
6	0	13	.50226		6	2	13	.5106		6	4	13	.51893		6	6	13	.52726
6	0	14	.50244		6	2	14	.51077		6	4	14	.5191		6	6	14	.52744
6	0	15	.50261		6	2	15	.51094		6	4	15	.51928		6	6	15	.52761
6	0	16	.50278		6	2	16	.51112		6	4	16	.51945		6	6	16	.52778
6	0	17	.50296		6	2	17	.51129		6	4	17	.51962		6	6	17	.52796
6	0	18	.50313		6	2	18	.51146		6	4	18	.5198		6	6	18	.52813
6	0	19	.5033		6	2	19	.51164		6	4	19	.51997		6	6	19	.5283
6	0	20	.50348		6	2	20	.51181		6	4	20	.52014		6	6	20	.52848
6	0	21	.50365		6	2	21	.51198		6	4	21	.52032		6	6	21	.52865
6	0	22	.50382		6	2	22	.51216		6	4	22	.52049		6	6	22	.52882
6	0	23	.504		6	2	23	.51233		6	4	23	.52066		6	6	23	.529
6	1	0	.50417		6	3	0	.5125		6	5	0	.52084		6	7	0	.52917
6	1	1	.50435		6	3	1	.51268		6	5	1	.52101		6	7	1	.52935
6	1	2	.50452		6	3	2	.51285		6	5	2	.52119		6	7	2	.52952
6	1	3	.50469		6	3	3	.51303		6	5	3	.52136		6	7	3	.52969
6	1	4	.50487		6	3	4	.5132		6	5	4	.52153		6	7	4	.52987
6	1	5	.50504		6	3	5	.51337		6	5	5	.52171		6	7	5	.53004
6	1	6	.50521		6	3	6	.51355		6	5	6	.52188		6	7	6	.53021
6	1	7	.50539		6	3	7	.51372		6	5	7	.52205		6	7	7	.53039
6	1	8	.50556		6	3	8	.51389		6	5	8	.52223		6	7	8	.53056
6	1	9	.50573		6	3	9	.51407		6	5	9	.5224		6	7	9	.53073
6	1	10	.50591		6	3	10	.51424		6	5	10	.52257		6	7	10	.53091
6	1	11	.50608		6	3	11	.51441		6	5	11	.52275		6	7	11	.53108
6	1	12	.50625		6	3	12	.51459		6	5	12	.52292		6	7	12	.53125
6	1	13	.50643		6	3	13	.51476		6	5	13	.5231		6	7	13	.53143
6	1	14	.5066		6	3	14	.51494		6	5	14	.52327		6	7	14	.5316
6	1	15	.50678		6	3	15	.51511		6	5	15	.52344		6	7	15	.53178
6	1	16	.5069		6	3	16	.51528		6	5	16	.52362		6	7	16	.53195
6	1	17	.50712		6	3	17	.51546		6	5	17	.52379		6	7	17	.53213
6	1	18	.5073		6	3	18	.51563		6	5	18	.52396		6	7	18	.5323
6	1	19	.50747		6	3	19	.5158		6	5	19	.52414		6	7	19	.53247
6	1	20	.50764		6	3	20	.51598		6	5	20	.52431		6	7	20	.53264
6	1	21	.50782		6	3	21	.51615		6	5	21	.52448		6	7	21	.53282
6	1	22	.50799		6	3	22	.51632		6	5	22	.52466		6	7	22	.53299
6	1	23	.50816		6	3	23	.5165		6	5	23	.52483		6	7	23	.53316
6	2	0	.50834		6	4	0	.51667		6	6	0	.525		6	8	0	.53334

POUND TROY.

oz. dwts. grs. or dwts. grs.  
[6 : 8 : 1 to 6 : 16 : 0

Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.
6	8	1	.53351		6	10	1	.54185		6	12	1	.55018		6	14	1	.55851
6	8	2	.53369		6	10	2	.54202		6	12	2	.55035		6	14	2	.55869
6	8	3	.53386		6	10	3	.54219		6	12	3	.55053		6	14	3	.55886
6	8	4	.53403		6	10	4	.54237		6	12	4	.5507		6	14	4	.55903
6	8	5	.53421		6	10	5	.54254		6	12	5	.55087		6	14	5	.55921
6	8	6	.53438		6	10	6	.54271		6	12	6	.55105		6	14	6	.55938
6	8	7	.53455		6	10	7	.54289		6	12	7	.55122		6	14	7	.55955
6	8	8	.53473		6	10	8	.54306		6	12	8	.55139		6	14	8	.55973
6	8	9	.5349		6	10	9	.54323		6	12	9	.55157		6	14	9	.5599
6	8	10	.53507		6	10	10	.54341		6	12	10	.55174		6	14	10	.56007
6	8	11	.53525		6	10	11	.54358		6	12	11	.55191		6	14	11	.56025
6	8	12	.53542		6	10	12	.54375		6	12	12	.55209		6	14	12	.56042
6	8	13	.5356		6	10	13	.54393		6	12	13	.55226		6	14	13	.5606
6	8	14	.53577		6	10	14	.5441		6	12	14	.55244		6	14	14	.56077
6	8	15	.53594		6	10	15	.54428		6	12	15	.55261		6	14	15	.56094
6	8	16	.53612		6	10	16	.54445		6	12	16	.55278		6	14	16	.56112
6	8	17	.53629		6	10	17	.54462		6	12	17	.55296		6	14	17	.56129
6	8	18	.53646		6	10	18	.5448		6	12	18	.55313		6	14	18	.56146
6	8	19	.53664		6	10	19	.54497		6	12	19	.5533		6	14	19	.56164
6	8	20	.53681		6	10	20	.54514		6	12	20	.55348		6	14	20	.56181
6	8	21	.53698		6	10	21	.54532		6	12	21	.55365		6	14	21	.56198
6	8	22	.53716		6	10	22	.54549		6	12	22	.55382		6	14	22	.56216
6	8	23	.53733		6	10	23	.54566		6	12	23	.554		6	14	23	.56233
6	9	0	.5375		6	11	0	.54584		6	13	0	.55417		6	15	0	.5625
6	9	1	.53768		6	11	1	.54601		6	13	1	.55435		6	15	1	.56268
6	9	2	.53785		6	11	2	.54619		6	13	2	.55452		6	15	2	.56285
6	9	3	.53803		6	11	3	.54636		6	13	3	.55469		6	15	3	.56303
6	9	4	.5382		6	11	4	.54653		6	13	4	.55487		6	15	4	.5632
6	9	5	.53837		6	11	5	.54671		6	13	5	.55504		6	15	5	.56337
6	9	6	.53855		6	11	6	.54688		6	13	6	.55521		6	15	6	.56355
6	9	7	.53872		6	11	7	.54705		6	13	7	.55539		6	15	7	.56372
6	9	8	.53889		6	11	8	.54723		6	13	8	.55556		6	15	8	.56389
6	9	9	.53907		6	11	9	.5474		6	13	9	.55573		6	15	9	.56407
6	9	10	.53924		6	11	10	.54757		6	13	10	.55591		6	15	10	.56424
6	9	11	.53941		6	11	11	.54775		6	13	11	.55608		6	15	11	.56441
6	9	12	.53959		6	11	12	.54792		6	13	12	.55625		6	15	12	.56459
6	9	13	.53976		6	11	13	.5481		6	13	13	.55643		6	15	13	.56476
6	9	14	.53994		6	11	14	.54827		6	13	14	.5566		6	15	14	.56494
6	9	15	.54011		6	11	15	.54844		6	13	15	.55678		6	15	15	.56511
6	9	16	.54028		6	11	16	.54862		6	13	16	.55695		6	15	16	.56528
6	9	17	.54046		6	11	17	.54879		6	13	17	.55712		6	15	17	.56546
6	9	18	.54063		6	11	18	.54896		6	13	18	.5573		6	15	18	.56563
6	9	19	.5408		6	11	19	.54914		6	13	19	.55747		6	15	19	.5658
6	9	20	.54098		6	11	20	.54931		6	13	20	.55764		6	15	20	.56598
6	9	21	.54115		6	11	21	.54948		6	13	21	.55782		6	15	21	.56615
6	9	22	.54132		6	11	22	.54966		6	13	22	.55799		6	15	22	.56632
6	9	23	.5415		6	11	23	.54983		6	13	23	.55816		6	15	23	.5665
6	10	0	.54167		6	12	0	.55		6	14	0	.55834		6	16	0	.56667

oz. dwts. grs.    oz. dwts. grs.  
6 : 16 : 1 to 7 : 4 : 0]

## POUND TROY.

Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.		Oz.	Dwts.	Grs.	Decimals.
6	16	1	.56685		6	18	1	.57518		7	0	1	.58351		7	2	1	.59185
6	16	2	.56702		6	18	2	.57535		7	0	2	.58369		7	2	2	.59202
6	16	3	.56719		6	18	3	.57553		7	0	3	.58386		7	2	3	.59219
6	16	4	.56737		6	18	4	.5757		7	0	4	.58403		7	2	4	.59237
6	16	5	.56754		6	18	5	.57587		7	0	5	.58421		7	2	5	.59254
6	16	6	.56771		6	18	6	.57605		7	0	6	.58438		7	2	6	.59271
6	16	7	.56789		6	18	7	.57622		7	0	7	.58455		7	2	7	.59289
6	16	8	.56806		6	18	8	.57639		7	0	8	.58473		7	2	8	.59306
6	16	9	.56823		6	18	9	.57657		7	0	9	.5849		7	2	9	.59323
6	16	10	.56841		6	18	10	.57674		7	0	10	.58507		7	2	10	.59341
6	16	11	.56858		6	18	11	.57691		7	0	11	.58525		7	2	11	.59358
6	16	12	.56875		6	18	12	.57709		7	0	12	.58542		7	2	12	.59375
6	16	13	.56893		6	18	13	.57726		7	0	13	.5856		7	2	13	.59393
6	16	14	.5691		6	18	14	.57744		7	0	14	.58577		7	2	14	.5941
6	16	15	.56928		6	18	15	.57761		7	0	15	.58594		7	2	15	.59428
6	16	16	.56945		6	18	16	.57778		7	0	16	.58612		7	2	16	.59445
6	16	17	.56962		6	18	17	.57796		7	0	17	.58629		7	2	17	.59462
6	16	18	.5698		6	18	18	.57813		7	0	18	.58646		7	2	18	.5948
6	16	19	.56997		6	18	19	.5783		7	0	19	.58664		7	2	19	.59497
6	16	20	.57014		6	18	20	.57848		7	0	20	.58681		7	2	20	.59514
6	16	21	.57032		6	18	21	.57865		7	0	21	.58698		7	2	21	.59532
6	16	22	.57049		6	18	22	.57882		7	0	22	.58716		7	2	22	.59549
6	16	23	.57066		6	18	23	.579		7	0	23	.58733		7	2	23	.59566
6	17	0	.57084		6	19	0	.57917		7	1	0	.5875		7	3	0	.59584
6	17	1	.57101		6	19	1	.57935		7	1	1	.58768		7	3	1	.59601
6	17	2	.57119		6	19	2	.57952		7	1	2	.58785		7	3	2	.59619
6	17	3	.57136		6	19	3	.57969		7	1	3	.58803		7	3	3	.59636
6	17	4	.57153		6	19	4	.57987		7	1	4	.58821		7	3	4	.59653
6	17	5	.57171		6	19	5	.58004		7	1	5	.58837		7	3	5	.59671
6	17	6	.57188		6	19	6	.58021		7	1	6	.58855		7	3	6	.59688
6	17	7	.57205		6	19	7	.58039		7	1	7	.58872		7	3	7	.59705
6	17	8	.57223		6	19	8	.58056		7	1	8	.58889		7	3	8	.59723
6	17	9	.5724		6	19	9	.58073		7	1	9	.58907		7	3	9	.5974
6	17	10	.57257		6	19	10	.58091		7	1	10	.58924		7	3	10	.59757
6	17	11	.57275		6	19	11	.58108		7	1	11	.58941		7	3	11	.59775
6	17	12	.57292		6	19	12	.58125		7	1	12	.58959		7	3	12	.59792
6	17	13	.5731		6	19	13	.58143		7	1	13	.58976		7	3	13	.5981
6	17	14	.57327		6	19	14	.5816		7	1	14	.58994		7	3	14	.59827
6	17	15	.57344		6	19	15	.58178		7	1	15	.59011		7	3	15	.59844
6	17	16	.57362		6	19	16	.58195		7	1	16	.59028		7	3	16	.59862
6	17	17	.57379		6	19	17	.58212		7	1	17	.59046		7	3	17	.59879
6	17	18	.57396		6	19	18	.5823		7	1	18	.59063		7	3	18	.59896
6	17	19	.57414		6	19	19	.58247		7	1	19	.5908		7	3	19	.59914
6	17	20	.57431		6	19	20	.58264		7	1	20	.59098		7	3	20	.59931
6	17	21	.57448		6	19	21	.58282		7	1	21	.59115		7	3	21	.59948
6	17	22	.57466		6	19	22	.58299		7	1	22	.59132		7	3	22	.59966
6	17	23	.57483		6	19	23	.58316		7	1	23	.5915		7	3	23	.59983
6	18	0	.575		7	0	0	.58334		7	2	0	.59167		7	4	0	.6

POUND TROY.

[7 : 4 : 1 to 7 : 12 : 0

Oz.	Dwt.	Grs.	Decimals.	Oz.	Dwt.	Grs.	Decimals.	Oz.	Dwt.	Grs.	Decimals.	Oz.	Dwt.	Grs.	Decimals.
7	4	1	.60018	7	6	1	.60851	7	8	1	.61685	7	10	1	.62518
7	4	2	.60035	7	6	2	.60869	7	8	2	.61702	7	10	2	.62535
7	4	3	.60053	7	6	3	.60886	7	8	3	.61719	7	10	3	.62553
7	4	4	.6007	7	6	4	.60903	7	8	4	.61737	7	10	4	.6257
7	4	5	.60087	7	6	5	.60921	7	8	5	.61754	7	10	5	.62587
7	4	6	.60105	7	6	6	.60938	7	8	6	.61771	7	10	6	.62605
7	4	7	.60122	7	6	7	.60955	7	8	7	.61789	7	10	7	.62622
7	4	8	.60139	7	6	8	.60973	7	8	8	.61806	7	10	8	.62639
7	4	9	.60157	7	6	9	.6099	7	8	9	.61823	7	10	9	.62657
7	4	10	.60174	7	6	10	.61007	7	8	10	.61841	7	10	10	.62674
7	4	11	.60191	7	6	11	.61025	7	8	11	.61858	7	10	11	.62691
7	4	12	.60209	7	6	12	.61042	7	8	12	.61875	7	10	12	.62709
7	4	13	.60226	7	6	13	.6106	7	8	13	.61893	7	10	13	.62726
7	4	14	.60244	7	6	14	.61077	7	8	14	.6191	7	10	14	.62744
7	4	15	.60261	7	6	15	.61094	7	8	15	.61928	7	10	15	.62761
7	4	16	.60278	7	6	16	.61112	7	8	16	.61945	7	10	16	.62778
7	4	17	.60296	7	6	17	.61129	7	8	17	.61962	7	10	17	.62796
7	4	18	.60313	7	6	18	.61146	7	8	18	.6198	7	10	18	.62813
7	4	19	.6033	7	6	19	.61164	7	8	19	.61997	7	10	19	.6283
7	4	20	.60348	7	6	20	.61181	7	8	20	.62014	7	10	20	.62848
7	4	21	.60365	7	6	21	.61198	7	8	21	.62032	7	10	21	.62865
7	4	22	.60382	7	6	22	.61216	7	8	22	.62049	7	10	22	.62882
7	4	23	.604	7	6	23	.61233	7	8	23	.62066	7	10	23	.629
7	5	0	.60417	7	7	0	.6125	7	9	0	.62084	7	11	0	.62917
7	5	1	.60435	7	7	1	.61268	7	9	1	.62101	7	11	1	.62935
7	5	2	.60452	7	7	2	.61285	7	9	2	.62119	7	11	2	.62952
7	5	3	.60469	7	7	3	.61303	7	9	3	.62136	7	11	3	.62969
7	5	4	.60487	7	7	4	.6132	7	9	4	.62153	7	11	4	.62987
7	5	5	.60504	7	7	5	.61337	7	9	5	.62171	7	11	5	.63004
7	5	6	.60521	7	7	6	.61355	7	9	6	.62188	7	11	6	.63021
7	5	7	.60539	7	7	7	.61372	7	9	7	.62205	7	11	7	.63039
7	5	8	.60556	7	7	8	.61389	7	9	8	.62223	7	11	8	.63056
7	5	9	.60573	7	7	9	.61407	7	9	9	.6224	7	11	9	.63073
7	5	10	.60591	7	7	10	.61424	7	9	10	.62257	7	11	10	.63091
7	5	11	.60608	7	7	11	.61441	7	9	11	.62275	7	11	11	.63108
7	5	12	.60625	7	7	12	.61459	7	9	12	.62292	7	11	12	.63125
7	5	13	.60643	7	7	13	.61476	7	9	13	.6231	7	11	13	.63143
7	5	14	.6066	7	7	14	.61494	7	9	14	.62327	7	11	14	.6316
7	5	15	.60678	7	7	15	.61511	7	9	15	.62344	7	11	15	.63178
7	5	16	.60695	7	7	16	.61528	7	9	16	.62362	7	11	16	.63195
7	5	17	.60712	7	7	17	.61546	7	9	17	.62379	7	11	17	.63212
7	5	18	.6073	7	7	18	.61563	7	9	18	.62396	7	11	18	.6323
7	5	19	.60747	7	7	19	.6158	7	9	19	.62414	7	11	19	.63247
7	5	20	.60764	7	7	20	.61598	7	9	20	.62431	7	11	20	.63264
7	5	21	.60782	7	7	21	.61615	7	9	21	.62448	7	11	21	.63282
7	5	22	.60799	7	7	22	.61632	7	9	22	.62466	7	11	22	.63299
7	5	23	.60816	7	7	23	.6165	7	9	23	.62483	7	11	23	.63316
7	6	0	.60834	7	8	0	.61667	7	10	0	.625	7	12	0	.63334

7 : 12 : 1 to 8 : 0 : 0]

# POUND TROY.

Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.
7	12	1	.63351	7	11	1	.64185	7	16	1	.65018	7	18	1	.65851
7	12	2	.63369	7	11	2	.64202	7	16	2	.65035	7	18	2	.65869
7	12	3	.63386	7	11	3	.64219	7	16	3	.65053	7	18	3	.65886
7	12	4	.63403	7	11	4	.64237	7	16	4	.6507	7	18	4	.65903
7	12	5	.63421	7	11	5	.64254	7	16	5	.65087	7	18	5	.65921
7	12	6	.63438	7	11	6	.64271	7	16	6	.65105	7	18	6	.65938
7	12	7	.63455	7	11	7	.64289	7	16	7	.65122	7	18	7	.65955
7	12	8	.63473	7	11	8	.64306	7	16	8	.65139	7	18	8	.65973
7	12	9	.6349	7	11	9	.64323	7	16	9	.65157	7	18	9	.6599
7	12	10	.63507	7	11	10	.64341	7	16	10	.65174	7	18	10	.66007
7	12	11	.63525	7	11	11	.64358	7	16	11	.65191	7	18	11	.66025
7	12	12	.63542	7	11	12	.64375	7	16	12	.65209	7	18	12	.66042
7	12	13	.6356	7	11	13	.64393	7	16	13	.65226	7	18	13	.6606
7	12	14	.63577	7	11	14	.6441	7	16	14	.65244	7	18	14	.66077
7	12	15	.63594	7	11	15	.64428	7	16	15	.65261	7	18	15	.66094
7	12	16	.63612	7	11	16	.64445	7	16	16	.65278	7	18	16	.66112
7	12	17	.63629	7	11	17	.64462	7	16	17	.65296	7	18	17	.66129
7	12	18	.63646	7	11	18	.6448	7	16	18	.65312	7	18	18	.66146
7	12	19	.63661	7	11	19	.64497	7	16	19	.6533	7	18	19	.66161
7	12	20	.63681	7	11	20	.64514	7	16	20	.65348	7	18	20	.66181
7	12	21	.63698	7	11	21	.64532	7	16	21	.65365	7	18	21	.66198
7	12	22	.63716	7	11	22	.64549	7	16	22	.65382	7	18	22	.66216
7	12	23	.63733	7	11	23	.64566	7	16	23	.654	7	18	23	.66233
7	13	0	.6375	7	15	0	.64584	7	17	0	.65417	7	19	0	.6625
7	13	1	.63768	7	15	1	.64601	7	17	1	.65435	7	19	1	.66268
7	13	2	.63785	7	15	2	.64619	7	17	2	.65452	7	19	2	.66285
7	13	3	.63803	7	15	3	.64636	7	17	3	.65469	7	19	3	.66303
7	13	4	.6382	7	15	4	.64653	7	17	4	.65487	7	19	4	.6632
7	13	5	.63837	7	15	5	.64671	7	17	5	.65504	7	19	5	.66337
7	13	6	.63855	7	15	6	.64688	7	17	6	.65521	7	19	6	.66355
7	13	7	.63872	7	15	7	.64705	7	17	7	.65539	7	19	7	.66372
7	13	8	.63889	7	15	8	.64723	7	17	8	.65556	7	19	8	.66389
7	13	9	.63907	7	15	9	.6474	7	17	9	.65573	7	19	9	.66407
7	13	10	.63924	7	15	10	.64757	7	17	10	.65591	7	19	10	.66424
7	13	11	.63941	7	15	11	.64775	7	17	11	.65608	7	19	11	.66441
7	13	12	.63959	7	15	12	.64792	7	17	12	.65625	7	19	12	.66459
7	13	13	.63976	7	15	13	.6481	7	17	13	.65643	7	19	13	.66476
7	13	14	.63994	7	15	14	.64827	7	17	14	.6566	7	19	14	.66494
7	13	15	.64011	7	15	15	.64844	7	17	15	.65678	7	19	15	.66511
7	13	16	.64028	7	15	16	.64862	7	17	16	.65695	7	19	16	.66528
7	13	17	.64046	7	15	17	.64879	7	17	17	.65712	7	19	17	.66546
7	13	18	.64063	7	15	18	.64896	7	17	18	.6573	7	19	18	.66563
7	13	19	.6408	7	15	19	.64914	7	17	19	.65747	7	19	19	.6658
7	13	20	.64098	7	15	20	.64931	7	17	20	.65764	7	19	20	.66598
7	13	21	.64115	7	15	21	.64948	7	17	21	.65782	7	19	21	.66615
7	13	22	.64132	7	15	22	.64966	7	17	22	.65799	7	19	22	.66632
7	13	23	.6415	7	15	23	.64983	7	17	23	.65816	7	19	23	.6665
7	14	0	.64167	7	16	0	.65	7	18	0	.65834	8	0	0	.66667



POUND TROY.

oz. dwt. grs. 8 : 0 : 1 to 8 : 8 : 0

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
8	0	1	.66685	8	2	1	.67518	8	4	1	.68351	8	6	1	.69185
8	0	2	.66702	8	2	2	.67585	8	4	2	.68369	8	6	2	.69202
8	0	3	.66719	8	2	3	.67553	8	4	3	.68386	8	6	3	.69219
8	0	4	.66737	8	2	4	.6757	8	4	4	.68403	8	6	4	.69237
8	0	5	.66754	8	2	5	.67587	8	4	5	.68421	8	6	5	.69254
8	0	6	.66771	8	2	6	.67605	8	4	6	.68438	8	6	6	.69271
8	0	7	.66789	8	2	7	.67622	8	4	7	.68455	8	6	7	.69289
8	0	8	.66806	8	2	8	.67639	8	4	8	.68473	8	6	8	.69306
8	0	9	.66823	8	2	9	.67657	8	4	9	.6849	8	6	9	.69323
8	0	10	.66841	8	2	10	.67674	8	4	10	.68507	8	6	10	.69341
8	0	11	.66858	8	2	11	.67691	8	4	11	.68525	8	6	11	.69358
8	0	12	.66875	8	2	12	.67709	8	4	12	.68542	8	6	12	.69375
8	0	13	.66893	8	2	13	.67726	8	4	13	.6856	8	6	13	.69393
8	0	14	.6691	8	2	14	.67744	8	1	14	.68577	8	6	14	.6941
8	0	15	.66928	8	2	15	.67761	8	4	15	.68594	8	6	15	.69428
8	0	16	.66945	8	2	16	.67778	8	4	16	.68612	8	6	16	.69445
8	0	17	.66962	8	2	17	.67796	8	4	17	.68629	8	6	17	.69462
8	0	18	.6698	8	2	18	.67813	8	4	18	.68646	8	6	18	.6948
8	0	19	.66997	8	2	19	.6783	8	4	19	.68664	8	6	19	.69497
8	0	20	.67014	8	2	20	.67848	8	4	20	.68681	8	6	20	.69514
8	0	21	.67032	8	2	21	.67865	8	4	21	.68698	8	6	21	.69532
8	0	22	.67049	8	2	22	.67882	8	4	22	.68716	8	6	22	.69549
8	0	23	.67066	8	2	23	.679	8	4	23	.68733	8	6	23	.69566
8	1	0	.67084	8	3	0	.67917	8	5	0	.6875	8	7	0	.69584
8	1	1	.67101	8	3	1	.67935	8	5	1	.68768	8	7	1	.69601
8	1	2	.67119	8	3	2	.67952	8	5	2	.68785	8	7	2	.69619
8	1	3	.67136	8	3	3	.67969	8	5	3	.68803	8	7	3	.69636
8	1	4	.67153	8	3	4	.67987	8	5	4	.6882	8	7	4	.69653
8	1	5	.67171	8	3	5	.68004	8	5	5	.68837	8	7	5	.69671
8	1	6	.67188	8	3	6	.68021	8	5	6	.68855	8	7	6	.69688
8	1	7	.67205	8	3	7	.68039	8	5	7	.68872	8	7	7	.69705
8	1	8	.67223	8	3	8	.68056	8	5	8	.68889	8	7	8	.69723
8	1	9	.6724	8	3	9	.68073	8	5	9	.68907	8	7	9	.6974
8	1	10	.67257	8	3	10	.68091	8	5	10	.68924	8	7	10	.69757
8	1	11	.67275	8	3	11	.68108	8	5	11	.68941	8	7	11	.69775
8	1	12	.67292	8	3	12	.68125	8	5	12	.68959	8	7	12	.69792
8	1	13	.6731	8	3	13	.68143	8	5	13	.68976	8	7	13	.6981
8	1	14	.67327	8	3	14	.6816	8	5	14	.68994	8	7	14	.69827
8	1	15	.67344	8	3	15	.68178	8	5	15	.69011	8	7	15	.69844
8	1	16	.67362	8	3	16	.68195	8	5	16	.69028	8	7	16	.69862
8	1	17	.67379	8	3	17	.68212	8	5	17	.69046	8	7	17	.69879
8	1	18	.67396	8	3	18	.6823	8	5	18	.69063	8	7	18	.69896
8	1	19	.67414	8	3	19	.68247	8	5	19	.6908	8	7	19	.69914
8	1	20	.67431	8	3	20	.68264	8	5	20	.69098	8	7	20	.69931
8	1	21	.67448	8	3	21	.68282	8	5	21	.69115	8	7	21	.69948
8	1	22	.67466	8	3	22	.68299	8	5	22	.69132	8	7	22	.69966
8	1	23	.67483	8	3	23	.68316	8	5	23	.6915	8	7	23	.69983
8	2	0	.675	8	4	0	.68334	8	6	0	.69167	8	8	0	.7



oz. dwts. grs.      oz. dwts. grs.  
8 : 8 : 1 to 8 : 16 : 0]

## POUND TROY.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
8	8	1	.70018	8	10	1	.70851	8	12	1	.71685	8	14	1	.72518
8	8	2	.70035	8	10	2	.70869	8	12	2	.71702	8	14	2	.72535
8	8	3	.70053	8	10	3	.70886	8	12	3	.71719	8	14	3	.72553
8	8	4	.7007	8	10	4	.70903	8	12	4	.71737	8	14	4	.7257
8	8	5	.70087	8	10	5	.70921	8	12	5	.71754	8	14	5	.72587
8	8	6	.70105	8	10	6	.70938	8	12	6	.71771	8	14	6	.72605
8	8	7	.70122	8	10	7	.70955	8	12	7	.71789	8	14	7	.72622
8	8	8	.70139	8	10	8	.70973	8	12	8	.71806	8	14	8	.72639
8	8	9	.70157	8	10	9	.7099	8	12	9	.71823	8	14	9	.72657
8	8	10	.70174	8	10	10	.71007	8	12	10	.71841	8	14	10	.72674
8	8	11	.70191	8	10	11	.71025	8	12	11	.71858	8	14	11	.72691
8	8	12	.70209	8	10	12	.71042	8	12	12	.71875	8	14	12	.72709
8	8	13	.70226	8	10	13	.7106	8	12	13	.71893	8	14	13	.72726
8	8	14	.70244	8	10	14	.71077	8	12	14	.7191	8	14	14	.72744
8	8	15	.70261	8	10	15	.71094	8	12	15	.71928	8	14	15	.72761
8	8	16	.70278	8	10	16	.71112	8	12	16	.71945	8	14	16	.72778
8	8	17	.70296	8	10	17	.71129	8	12	17	.71962	8	14	17	.72796
8	8	18	.70313	8	10	18	.71146	8	12	18	.7198	8	14	18	.72813
8	8	19	.7033	8	10	19	.71164	8	12	19	.71997	8	14	19	.7283
8	8	20	.70348	8	10	20	.71181	8	12	20	.72014	8	14	20	.72848
8	8	21	.70365	8	10	21	.71198	8	12	21	.72032	8	14	21	.72865
8	8	22	.70382	8	10	22	.71216	8	12	22	.72049	8	14	22	.72882
8	8	23	.704	8	10	23	.71233	8	12	23	.72066	8	14	23	.729
8	9	0	.70417	8	11	0	.7125	8	13	0	.72084	8	15	0	.72917
8	9	1	.70435	8	11	1	.71268	8	13	1	.72101	8	15	1	.72935
8	9	2	.70452	8	11	2	.71285	8	13	2	.72119	8	15	2	.72952
8	9	3	.70469	8	11	3	.71303	8	13	3	.72136	8	15	3	.72969
8	9	4	.70487	8	11	4	.7132	8	13	4	.72153	8	15	4	.72987
8	9	5	.70504	8	11	5	.71337	8	13	5	.72171	8	15	5	.73004
8	9	6	.70521	8	11	6	.71355	8	13	6	.72188	8	15	6	.73021
8	9	7	.70539	8	11	7	.71372	8	13	7	.72205	8	15	7	.73039
8	9	8	.70556	8	11	8	.71389	8	13	8	.72223	8	15	8	.73056
8	9	9	.70573	8	11	9	.71407	8	13	9	.7224	8	15	9	.73073
8	9	10	.70591	8	11	10	.71424	8	13	10	.72257	8	15	10	.73091
8	9	11	.70608	8	11	11	.71441	8	13	11	.72275	8	15	11	.73108
8	9	12	.70625	8	11	12	.71459	8	13	12	.72292	8	15	12	.73125
8	9	13	.70643	8	11	13	.71476	8	13	13	.7231	8	15	13	.73143
8	9	14	.7066	8	11	14	.71494	8	13	14	.72327	8	15	14	.7316
8	9	15	.70678	8	11	15	.71511	8	13	15	.72344	8	15	15	.73178
8	9	16	.70695	8	11	16	.71528	8	13	16	.72362	8	15	16	.73195
8	9	17	.70712	8	11	17	.71546	8	13	17	.72379	8	15	17	.73212
8	9	18	.7073	8	11	18	.71563	8	13	18	.72396	8	15	18	.7323
8	9	19	.70747	8	11	19	.7158	8	13	19	.72414	8	15	19	.73247
8	9	20	.70764	8	11	20	.71598	8	13	20	.72431	8	15	20	.73264
8	9	21	.70782	8	11	21	.71615	8	13	21	.72448	8	15	21	.73282
8	9	22	.70799	8	11	22	.71632	8	13	22	.72466	8	15	22	.73299
8	9	23	.70816	8	11	23	.7165	8	13	23	.72483	8	15	23	.73316
8	10	0	.70834	8	12	0	.71667	8	14	0	.725	8	16	0	.73334

## .POUND TROY.

$$\begin{matrix} \text{oz.} & \text{dwts} & \text{grs.} & \text{oz.} & \text{dwts} & \text{grs.} \\ [8 : 16] : 1 & \text{to} & 9 : 4 : 0 \end{matrix}$$

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
8	16	1	.73351	8	18	1	.74185	9	0	1	.75018	9	2	1	.75851
8	16	2	.73369	8	18	2	.74292	9	0	2	.75035	9	2	2	.75869
8	16	3	.73386	8	18	3	.74219	9	0	3	.75053	9	2	3	.75886
8	16	4	.73403	8	18	4	.74237	9	0	4	.7507	9	2	4	.75903
8	16	5	.73421	8	18	5	.74254	9	0	5	.75087	9	2	5	.75921
8	16	6	.73438	8	18	6	.74271	9	0	6	.75105	9	2	6	.75938
8	16	7	.73455	8	18	7	.74289	9	0	7	.75122	9	2	7	.75955
8	16	8	.73473	8	18	8	.74306	9	0	8	.75139	9	2	8	.75973
8	16	9	.7349	8	18	9	.74323	9	0	9	.75157	9	2	9	.7599
8	16	10	.73507	8	18	10	.74341	9	0	10	.75174	9	2	10	.76007
8	16	11	.73525	8	18	11	.74358	9	0	11	.75191	9	2	11	.76025
8	16	12	.73542	8	18	12	.74375	9	0	12	.75209	9	2	12	.76042
8	16	13	.7356	8	18	13	.74393	9	0	13	.75226	9	2	13	.7606
8	16	14	.73577	8	18	14	.7441	9	0	14	.75244	9	2	14	.76077
8	16	15	.73591	8	18	15	.74428	9	0	15	.75261	9	2	15	.76094
8	16	16	.73612	8	18	16	.74445	9	0	16	.75278	9	2	16	.76112
8	16	17	.73629	8	18	17	.74462	9	0	17	.75296	9	2	17	.76129
8	16	18	.73646	8	18	18	.7448	9	0	18	.75313	9	2	18	.76146
8	16	19	.73664	8	18	19	.74497	9	0	19	.7533	9	2	19	.76164
8	16	20	.73681	8	18	20	.74514	9	0	20	.75348	9	2	20	.76181
8	16	21	.73698	8	18	21	.74532	9	0	21	.75365	9	2	21	.76198
8	16	22	.73716	8	18	22	.74549	9	0	22	.75382	9	2	22	.76216
8	16	23	.73733	8	18	23	.74566	9	0	23	.754	9	2	23	.76233
8	17	0	.7375	8	19	0	.74584	9	1	0	.75417	9	3	0	.7625
8	17	1	.73768	8	19	1	.74601	9	1	1	.75435	9	3	1	.76268
8	17	2	.73785	8	19	2	.74619	9	1	2	.75452	9	3	2	.76285
8	17	3	.73803	8	19	3	.74636	9	1	3	.75469	9	3	3	.76303
8	17	4	.7382	8	19	4	.74653	9	1	4	.75487	9	3	4	.7632
8	17	5	.73837	8	19	5	.74671	9	1	5	.75504	9	3	5	.76337
8	17	6	.73855	8	19	6	.74688	9	1	6	.75521	9	3	6	.76355
8	17	7	.73872	8	19	7	.74705	9	1	7	.75539	9	3	7	.76372
8	17	8	.73889	8	19	8	.74723	9	1	8	.75556	9	3	8	.76389
8	17	9	.73907	8	19	9	.7474	9	1	9	.75573	9	3	9	.76407
8	17	10	.73924	8	19	10	.74757	9	1	10	.75591	9	3	10	.76424
8	17	11	.73941	8	19	11	.74775	9	1	11	.75608	9	3	11	.76441
8	17	12	.73959	8	19	12	.74792	9	1	12	.75625	9	3	12	.76459
8	17	13	.73976	8	19	13	.7481	9	1	13	.75643	9	3	13	.76476
8	17	14	.73994	8	19	14	.74827	9	1	14	.7566	9	3	14	.76494
8	17	15	.74011	8	19	15	.74844	9	1	15	.75678	9	3	15	.76511
8	17	16	.74028	8	19	16	.74862	9	1	16	.75695	9	3	16	.76528
8	17	17	.74046	8	19	17	.74879	9	1	17	.75712	9	3	17	.76546
8	17	18	.74063	8	19	18	.74896	9	1	18	.7573	9	3	18	.76563
8	17	19	.7408	8	19	19	.74914	9	1	19	.75747	9	3	19	.7658
8	17	20	.74098	8	19	20	.74931	9	1	20	.75764	9	3	20	.76598
8	17	21	.74115	8	19	21	.74948	9	1	21	.75782	9	3	21	.76615
8	17	22	.74132	8	19	22	.74966	9	1	22	.75799	9	3	22	.76632
8	17	23	.7415	8	19	23	.74983	9	1	23	.75816	9	3	23	.7665
8	18	0	.74167	9	0	0	.75	9	2	0	.75831	9	4	0	.76667

9 : 4 : 1 to 9 : [2 : 0]

# POUND TROY..

Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.	Oz.	Dwt.	Gr.	Decimals.
9	4	1	.76685	9	6	1	.77518	9	8	1	.78351	9	10	1	.79185
9	4	2	.76702	9	6	2	.77535	9	8	2	.78369	9	10	2	.79202
9	4	3	.76719	9	6	3	.77553	9	8	3	.78386	9	10	3	.79219
9	4	4	.76737	9	6	4	.7757	9	8	4	.78403	9	10	4	.79237
9	4	5	.76754	9	6	5	.77587	9	8	5	.78421	9	10	5	.79254
9	4	6	.76771	9	6	6	.77605	9	8	6	.78438	9	10	6	.79271
9	4	7	.76789	9	6	7	.77622	9	8	7	.78455	9	10	7	.79289
9	4	8	.76806	9	6	8	.77639	9	8	8	.78473	9	10	8	.79306
9	4	9	.76823	9	6	9	.77657	9	8	9	.7849	9	10	9	.79323
9	4	10	.76841	9	6	10	.77674	9	8	10	.78507	9	10	10	.79341
9	4	11	.76858	9	6	11	.77691	9	8	11	.78525	9	10	11	.79358
9	4	12	.76875	9	6	12	.77709	9	8	12	.78542	9	10	12	.79375
9	4	13	.76893	9	6	13	.77726	9	8	13	.7856	9	10	13	.79393
9	4	14	.7691	9	6	14	.77744	9	8	14	.78577	9	10	14	.7941
9	4	15	.76928	9	6	15	.77761	9	8	15	.78594	9	10	15	.79428
9	4	16	.76945	9	6	16	.77778	9	8	16	.78612	9	10	16	.79445
9	4	17	.76962	9	6	17	.77796	9	8	17	.78629	9	10	17	.79462
9	4	18	.7698	9	6	18	.77813	9	8	18	.78646	9	10	18	.7948
9	4	19	.76997	9	6	19	.7783	9	8	19	.78664	9	10	19	.79497
9	4	20	.77014	9	6	20	.77848	9	8	20	.78681	9	10	20	.79514
9	4	21	.77032	9	6	21	.77865	9	8	21	.78698	9	10	21	.79532
9	4	22	.77049	9	6	22	.77882	9	8	22	.78716	9	10	22	.79549
9	4	23	.77066	9	6	23	.779	9	8	23	.78733	9	10	23	.79566
9	5	0	.77084	9	7	0	.77917	9	9	0	.7875	9	11	0	.79584
9	5	1	.77101	9	7	1	.77935	9	9	1	.78768	9	11	1	.79601
9	5	2	.77119	9	7	2	.77952	9	9	2	.78785	9	11	2	.79619
9	5	3	.77136	9	7	3	.77969	9	9	3	.78803	9	11	3	.79636
9	5	4	.77153	9	7	4	.77987	9	9	4	.7882	9	11	4	.79653
9	5	5	.77171	9	7	5	.78004	9	9	5	.78837	9	11	5	.79671
9	5	6	.77188	9	7	6	.78021	9	9	6	.78855	9	11	6	.79688
9	5	7	.77205	9	7	7	.78039	9	9	7	.78872	9	11	7	.79705
9	5	8	.77223	9	7	8	.78056	9	9	8	.78889	9	11	8	.79723
9	5	9	.7724	9	7	9	.78073	9	9	9	.78907	9	11	9	.7974
9	5	10	.77257	9	7	10	.78091	9	9	10	.78924	9	11	10	.79757
9	5	11	.77275	9	7	11	.78108	9	9	11	.78941	9	11	11	.79775
9	5	12	.77292	9	7	12	.78125	9	9	12	.78959	9	11	12	.79792
9	5	13	.7731	9	7	13	.78143	9	9	13	.78976	9	11	13	.7981
9	5	14	.77327	9	7	14	.7816	9	9	14	.78994	9	11	14	.79827
9	5	15	.77344	9	7	15	.78178	9	9	15	.79011	9	11	15	.79844
9	5	16	.77362	9	7	16	.78195	9	9	16	.79028	9	11	16	.79862
9	5	17	.77379	9	7	17	.78212	9	9	17	.79046	9	11	17	.79879
9	5	18	.77396	9	7	18	.7823	9	9	18	.79063	9	11	18	.79896
9	5	19	.77414	9	7	19	.78247	9	9	19	.7908	9	11	19	.79914
9	5	20	.77431	9	7	20	.78264	9	9	20	.79098	9	11	20	.79931
9	5	21	.77448	9	7	21	.78282	9	9	21	.79115	9	11	21	.79948
9	5	22	.77466	9	7	22	.78299	9	9	22	.79132	9	11	22	.79966
9	5	23	.77483	9	7	23	.78316	9	9	23	.7915	9	11	23	.79983
9	6	0	.775	9	8	0	.78334	9	10	0	.79167	9	12	0	.8

## POUND TROY.

[9 : 12] 1 to 10 : 0 : 0

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
9	12	1	.80018	9	14	1	.80851	9	16	1	.81685	9	18	1	.82518
9	12	2	.80035	9	14	2	.80869	9	16	2	.81702	9	18	2	.82535
9	12	3	.80053	9	14	3	.80886	9	16	3	.81719	9	18	3	.82553
9	12	4	.8007	9	14	4	.80903	9	16	4	.81737	9	18	4	.8257
9	12	5	.80087	9	14	5	.80921	9	16	5	.81754	9	18	5	.82587
9	12	6	.80105	9	14	6	.80938	9	16	6	.81771	9	18	6	.82605
9	12	7	.80122	9	14	7	.80955	9	16	7	.81789	9	18	7	.82622
9	12	8	.80139	9	14	8	.80973	9	16	8	.81806	9	18	8	.82639
9	12	9	.80157	9	14	9	.8099	9	16	9	.81823	9	18	9	.82657
9	12	10	.80174	9	14	10	.81007	9	16	10	.81841	9	18	10	.82674
9	12	11	.80191	9	14	11	.81025	9	16	11	.81858	9	18	11	.82691
9	12	12	.80209	9	14	12	.81042	9	16	12	.81875	9	18	12	.82709
9	12	13	.80226	9	14	13	.8106	9	16	13	.81893	9	18	13	.82726
9	12	14	.80244	9	14	14	.81077	9	16	14	.8191	9	18	14	.82744
9	12	15	.80261	9	14	15	.81094	9	16	15	.81928	9	18	15	.82761
9	12	16	.80278	9	14	16	.81112	9	16	16	.81945	9	18	16	.82778
9	12	17	.80296	9	14	17	.81129	9	16	17	.81962	9	18	17	.82796
9	12	18	.80313	9	14	18	.81146	9	16	18	.8198	9	18	18	.82813
9	12	19	.8033	9	14	19	.81164	9	16	19	.81997	9	18	19	.8283
9	12	20	.80348	9	14	20	.81181	9	16	20	.82014	9	18	20	.82848
9	12	21	.80365	9	14	21	.81198	9	16	21	.82032	9	18	21	.82865
9	12	22	.80382	9	14	22	.81216	9	16	22	.82049	9	18	22	.82882
9	12	23	.804	9	14	23	.81233	9	16	23	.82066	9	18	23	.829
9	13	0	.80417	9	15	0	.8125	9	17	0	.82084	9	19	0	.82917
9	13	1	.80435	9	15	1	.81268	9	17	1	.82101	9	19	1	.82935
9	13	2	.80452	9	15	2	.81285	9	17	2	.82119	9	19	2	.82952
9	13	3	.80469	9	15	3	.81303	9	17	3	.82136	9	19	3	.82969
9	13	4	.80487	9	15	4	.8132	9	17	4	.82153	9	19	4	.82987
9	13	5	.80504	9	15	5	.81337	9	17	5	.82171	9	19	5	.83004
9	13	6	.80521	9	15	6	.81355	9	17	6	.82188	9	19	6	.83021
9	13	7	.80539	9	15	7	.81372	9	17	7	.82205	9	19	7	.83039
9	13	8	.80556	9	15	8	.81389	9	17	8	.82223	9	19	8	.83056
9	13	9	.80573	9	15	9	.81407	9	17	9	.8224	9	19	9	.83073
9	13	10	.80591	9	15	10	.81424	9	17	10	.82257	9	19	10	.83091
9	13	11	.80608	9	15	11	.81441	9	17	11	.82275	9	19	11	.83108
9	13	12	.80625	9	15	12	.81459	9	17	12	.82292	9	19	12	.83125
9	13	13	.80643	9	15	13	.81476	9	17	13	.8231	9	19	13	.83143
9	13	14	.8066	9	15	14	.81494	9	17	14	.82327	9	19	14	.8316
9	13	15	.80678	9	15	15	.81511	9	17	15	.82344	9	19	15	.83178
9	13	16	.80695	9	15	16	.81528	9	17	16	.82362	9	19	16	.83195
9	13	17	.80712	9	15	17	.81546	9	17	17	.82379	9	19	17	.83212
9	13	18	.8073	9	15	18	.81563	9	17	18	.82396	9	19	18	.8323
9	13	19	.80747	9	15	19	.8158	9	17	19	.82414	9	19	19	.83247
9	13	20	.80764	9	15	20	.81598	9	17	20	.82431	9	19	20	.83264
9	13	21	.80782	9	15	21	.81615	9	17	21	.82448	9	19	21	.83282
9	13	22	.80799	9	15	22	.81632	9	17	22	.82466	9	19	22	.83299
9	13	23	.80816	9	15	23	.8165	9	17	23	.82483	9	19	23	.83316
9	14	0	.80834	9	16	0	.81667	9	18	0	.825	10	0	0	.83334

oz. dwt. grs.      oz. p dwt. grs.  
 10 : 0 : 1 to 10 : 8 : 0

## POUND TROY.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
10	0	1	.83351	10	2	1	.84185	10	4	1	.85018	10	6	1	.85851
10	0	2	.83369	10	2	2	.84202	10	4	2	.85035	10	6	2	.85869
10	0	3	.83386	10	2	3	.84219	10	4	3	.85053	10	6	3	.85886
10	0	4	.83403	10	2	4	.84237	10	4	4	.8507	10	6	4	.85903
10	0	5	.83421	10	2	5	.84254	10	4	5	.85087	10	6	5	.85921
10	0	6	.83438	10	2	6	.84271	10	4	6	.85105	10	6	6	.85938
10	0	7	.83455	10	2	7	.84289	10	4	7	.85122	10	6	7	.85955
10	0	8	.83473	10	2	8	.84306	10	4	8	.85139	10	6	8	.85973
10	0	9	.8349	10	2	9	.84323	10	4	9	.85157	10	6	9	.8599
10	0	10	.83507	10	2	10	.84341	10	4	10	.85174	10	6	10	.86007
10	0	11	.83525	10	2	11	.84358	10	4	11	.85191	10	6	11	.86025
10	0	12	.83542	10	2	12	.84375	10	4	12	.85209	10	6	12	.86042
10	0	13	.8356	10	2	13	.84393	10	4	13	.85226	10	6	13	.8606
10	0	14	.83577	10	2	14	.8441	10	4	14	.85244	10	6	14	.86077
10	0	15	.83594	10	2	15	.84428	10	4	15	.85261	10	6	15	.86094
10	0	16	.83612	10	2	16	.84445	10	4	16	.85278	10	6	16	.86112
10	0	17	.83629	10	2	17	.84462	10	4	17	.85296	10	6	17	.86129
10	0	18	.83646	10	2	18	.8448	10	4	18	.85313	10	6	18	.86146
10	0	19	.83664	10	2	19	.84497	10	4	19	.8533	10	6	19	.86164
10	0	20	.83681	10	2	20	.84514	10	4	20	.85348	10	6	20	.86181
10	0	21	.83698	10	2	21	.84532	10	4	21	.85365	10	6	21	.86198
10	0	22	.83716	10	2	22	.84549	10	4	22	.85382	10	6	22	.86216
10	0	23	.83733	10	2	23	.84566	10	4	23	.854	10	6	23	.86233
10	1	0	.8375	10	3	0	.84584	10	5	0	.85417	10	7	0	.8625
10	1	1	.83768	10	3	1	.84601	10	5	1	.85435	10	7	1	.86268
10	1	2	.83785	10	3	2	.84619	10	5	2	.85452	10	7	2	.86285
10	1	3	.83803	10	3	3	.84636	10	5	3	.85469	10	7	3	.86303
10	1	4	.8382	10	3	4	.84653	10	5	4	.85487	10	7	4	.8632
10	1	5	.83837	10	3	5	.84671	10	5	5	.85504	10	7	5	.86337
10	1	6	.83855	10	3	6	.84688	10	5	6	.85521	10	7	6	.86355
10	1	7	.83872	10	3	7	.84705	10	5	7	.85539	10	7	7	.86372
10	1	8	.83889	10	3	8	.84723	10	5	8	.85556	10	7	8	.86389
10	1	9	.83907	10	3	9	.8474	10	5	9	.85573	10	7	9	.86407
10	1	10	.83924	10	3	10	.84757	10	5	10	.85591	10	7	10	.86424
10	1	11	.83941	10	3	11	.84775	10	5	11	.85608	10	7	11	.86441
10	1	12	.83959	10	3	12	.84792	10	5	12	.85625	10	7	12	.86459
10	1	13	.83976	10	3	13	.8481	10	5	13	.85643	10	7	13	.86476
10	1	14	.83994	10	3	14	.84827	10	5	14	.8566	10	7	14	.86494
10	1	15	.84011	10	3	15	.84844	10	5	15	.85678	10	7	15	.86511
10	1	16	.84028	10	3	16	.84862	10	5	16	.85695	10	7	16	.86528
10	1	17	.84046	10	3	17	.84879	10	5	17	.85712	10	7	17	.86546
10	1	18	.84063	10	3	18	.84896	10	5	18	.8573	10	7	18	.86563
10	1	19	.8408	10	3	19	.84914	10	5	19	.85747	10	7	19	.8658
10	1	20	.84098	10	3	20	.84931	10	5	20	.85764	10	7	20	.86598
10	1	21	.84115	10	3	21	.84948	10	5	21	.85782	10	7	21	.86615
10	1	22	.84132	10	3	22	.84966	10	5	22	.85799	10	7	22	.86632
10	1	23	.8415	10	3	23	.84983	10	5	23	.85816	10	7	23	.8665
10	2	0	.84167	10	4	0	.85	10	6	0	.85834	10	8	0	.86667

## POUND TROY.

[10 : 8 : 1 to 10 : 16 : 0]

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
10	8	1	.86685	10	10	1	.87518	10	12	1	.88351	10	14	1	.89185
10	8	2	.86702	10	10	2	.87535	10	12	2	.88369	10	14	2	.89202
10	8	3	.86719	10	10	3	.87553	10	12	3	.88386	10	14	3	.89219
10	8	4	.86737	10	10	4	.8757	10	12	4	.88403	10	14	4	.89237
10	8	5	.86754	10	10	5	.87587	10	12	5	.88421	10	14	5	.89254
10	8	6	.86771	10	10	6	.87605	10	12	6	.88438	10	14	6	.89271
10	8	7	.86789	10	10	7	.87622	10	12	7	.88455	10	14	7	.89289
10	8	8	.86806	10	10	8	.87639	10	12	8	.88473	10	14	8	.89306
10	8	9	.86823	10	10	9	.87657	10	12	9	.8849	10	14	9	.89323
10	8	10	.86841	10	10	10	.87674	10	12	10	.88507	10	14	10	.89341
10	8	11	.86858	10	10	11	.87691	10	12	11	.88525	10	14	11	.89358
10	8	12	.86875	10	10	12	.87709	10	12	12	.88542	10	14	12	.89375
10	8	13	.86893	10	10	13	.87726	10	12	13	.8856	10	14	13	.89393
10	8	14	.8691	10	10	14	.87744	10	12	14	.88577	10	14	14	.8941
10	8	15	.86928	10	10	15	.87761	10	12	15	.88594	10	14	15	.89428
10	8	16	.86945	10	10	16	.87778	10	12	16	.88612	10	14	16	.89445
10	8	17	.86962	10	10	17	.87796	10	12	17	.88629	10	14	17	.89462
10	8	18	.8698	10	10	18	.87813	10	12	18	.88646	10	14	18	.8948
10	8	19	.86997	10	10	19	.8783	10	12	19	.88664	10	14	19	.89497
10	8	20	.87014	10	10	20	.87848	10	12	20	.88681	10	14	20	.89514
10	8	21	.87032	10	10	21	.87865	10	12	21	.88698	10	14	21	.89532
10	8	22	.87049	10	10	22	.87882	10	12	22	.88716	10	14	22	.89549
10	8	23	.87066	10	10	23	.879	10	12	23	.88733	10	14	23	.89566
10	9	0	.87084	10	11	0	.87917	10	13	0	.8875	10	15	0	.89584
10	9	1	.87101	10	11	1	.87935	10	13	1	.88768	10	15	1	.89601
10	9	2	.87119	10	11	2	.87952	10	13	2	.88785	10	15	2	.89619
10	9	3	.87136	10	11	3	.87969	10	13	3	.88803	10	15	3	.89636
10	9	4	.87153	10	11	4	.87987	10	13	4	.8882	10	15	4	.89653
10	9	5	.87171	10	11	5	.88004	10	13	5	.88837	10	15	5	.89671
10	9	6	.87188	10	11	6	.88021	10	13	6	.88855	10	15	6	.89688
10	9	7	.87205	10	11	7	.88039	10	13	7	.88872	10	15	7	.89705
10	9	8	.87223	10	11	8	.88056	10	13	8	.88889	10	15	8	.89723
10	9	9	.8724	10	11	9	.88073	10	13	9	.88907	10	15	9	.8974
10	9	10	.87257	10	11	10	.88091	10	13	10	.88924	10	15	10	.89757
10	9	11	.87275	10	11	11	.88108	10	13	11	.88941	10	15	11	.89775
10	9	12	.87292	10	11	12	.88125	10	13	12	.88959	10	15	12	.89792
10	9	13	.8731	10	11	13	.88143	10	13	13	.88976	10	15	13	.8981
10	9	14	.87327	10	11	14	.8816	10	13	14	.88994	10	15	14	.89827
10	9	15	.87344	10	11	15	.88178	10	13	15	.89011	10	15	15	.89844
10	9	16	.87362	10	11	16	.88195	10	13	16	.89028	10	15	16	.89862
10	9	17	.87379	10	11	17	.88212	10	13	17	.89046	10	15	17	.89879
10	9	18	.87396	10	11	18	.8823	10	13	18	.89063	10	15	18	.89896
10	9	19	.87414	10	11	19	.88247	10	13	19	.8908	10	15	19	.89914
10	9	20	.87431	10	11	20	.88264	10	13	20	.89098	10	15	20	.89931
10	9	21	.87448	10	11	21	.88282	10	13	21	.89115	10	15	21	.89948
10	9	22	.87466	10	11	22	.88299	10	13	22	.89132	10	15	22	.89966
10	9	23	.87483	10	11	23	.88316	10	13	23	.8915	10	15	23	.89983
10	10	0	.875	10	12	0	.88334	10	14	0	.89167	10	16	0	.9

oz. dwt. grs.  $\frac{1}{16}$  to  $\frac{1}{4}$  : 4 : 0

## POUND TROY.

Oz.	Dwt.	Grs.	Decimals.	Oz.	Dwt.	Grs.	Decimals.	Oz.	Dwt.	Grs.	Decimals.	Oz.	Dwt.	Grs.	Decimals.
10	16	1	.90018	10	18	1	.90851	11	0	1	.91685	11	2	1	.92518
10	16	2	.90035	10	18	2	.90869	11	0	2	.91702	11	2	2	.92535
10	16	3	.90053	10	18	3	.90886	11	0	3	.91719	11	2	3	.92553
10	16	4	.9007	10	18	4	.90903	11	0	4	.91737	11	2	4	.9257
10	16	5	.90087	10	18	5	.90921	11	0	5	.91754	11	2	5	.92587
10	16	6	.90105	10	18	6	.90938	11	0	6	.91771	11	2	6	.92605
10	16	7	.90122	10	18	7	.90955	11	0	7	.91789	11	2	7	.92622
10	16	8	.90139	10	18	8	.90973	11	0	8	.91806	11	2	8	.92639
10	16	9	.90157	10	18	9	.9099	11	0	9	.91823	11	2	9	.92657
10	16	10	.90174	10	18	10	.91007	11	0	10	.91841	11	2	10	.92674
10	16	11	.90191	10	18	11	.91025	11	0	11	.91858	11	2	11	.92691
10	16	12	.90209	10	18	12	.91042	11	0	12	.91875	11	2	12	.92709
10	16	13	.90226	10	18	13	.9106	11	0	13	.91893	11	2	13	.92726
10	16	14	.90244	10	18	14	.91077	11	0	14	.9191	11	2	14	.92744
10	16	15	.90261	10	18	15	.91094	11	0	15	.91928	11	2	15	.92761
10	16	16	.90278	10	18	16	.91112	11	0	16	.91945	11	2	16	.92778
10	16	17	.90296	10	18	17	.91129	11	0	17	.91962	11	2	17	.92796
10	16	18	.90313	10	18	18	.91146	11	0	18	.9198	11	2	18	.92813
10	16	19	.9033	10	18	19	.91164	11	0	19	.91997	11	2	19	.9283
10	16	20	.90348	10	18	20	.91181	11	0	20	.92014	11	2	20	.92848
10	16	21	.90365	10	18	21	.91198	11	0	21	.92032	11	2	21	.92865
10	16	22	.90382	10	18	22	.91216	11	0	22	.92049	11	2	22	.92882
10	16	23	.904	10	18	23	.91233	11	0	23	.92066	11	2	23	.929
10	17	0	.90417	10	19	0	.9125	11	1	0	.92084	11	3	0	.92917
10	17	1	.90435	10	19	1	.91268	11	1	1	.92101	11	3	1	.92935
10	17	2	.90452	10	19	2	.91285	11	1	2	.92119	11	3	2	.92952
10	17	3	.90469	10	19	3	.91303	11	1	3	.92136	11	3	3	.92969
10	17	4	.90487	10	19	4	.9132	11	1	4	.92153	11	3	4	.92987
10	17	5	.90504	10	19	5	.91337	11	1	5	.92171	11	3	5	.93004
10	17	6	.90521	10	19	6	.91355	11	1	6	.92188	11	3	6	.93021
10	17	7	.90539	10	19	7	.91372	11	1	7	.92205	11	3	7	.93039
10	17	8	.90556	10	19	8	.91389	11	1	8	.92223	11	3	8	.93056
10	17	9	.90573	10	19	9	.91407	11	1	9	.9224	11	3	9	.93073
10	17	10	.90591	10	19	10	.91424	11	1	10	.92257	11	3	10	.93091
10	17	11	.90608	10	19	11	.91441	11	1	11	.92275	11	3	11	.93108
10	17	12	.90625	10	19	12	.91459	11	1	12	.92292	11	3	12	.93125
10	17	13	.90643	10	19	13	.91476	11	1	13	.9231	11	3	13	.93143
10	17	14	.9066	10	19	14	.91494	11	1	14	.92327	11	3	14	.9316
10	17	15	.90678	10	19	15	.91511	11	1	15	.92344	11	3	15	.93178
10	17	16	.9069	10	19	16	.91528	11	1	16	.92362	11	3	16	.93195
10	17	17	.90712	10	19	17	.91546	11	1	17	.92379	11	3	17	.93212
10	17	18	.9073	10	19	18	.91563	11	1	18	.92396	11	3	18	.9323
10	17	19	.90747	10	19	19	.9158	11	1	19	.92414	11	3	19	.93247
10	17	20	.90764	10	19	20	.91598	11	1	20	.92431	11	3	20	.93264
10	17	21	.90782	10	19	21	.91615	11	1	21	.92448	11	3	21	.93282
10	17	22	.90799	10	19	22	.91632	11	1	22	.92466	11	3	22	.93299
10	17	23	.90816	10	19	23	.9165	11	1	23	.92483	11	3	23	.93316
10	18	0	.90834	11	0	0	.91667	11	2	0	.925	11	4	0	.93334



## POUND TROY.

[11 : 4 : ] to 11 : 12 : 0

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
11	4	1	.93351	11	6	1	.94185	11	8	1	.95018	11	10	1	.95851
11	4	2	.93369	11	6	2	.94202	11	8	2	.95035	11	10	2	.95869
11	4	3	.93386	11	6	3	.94219	11	8	3	.95053	11	10	3	.95886
11	4	4	.93403	11	6	4	.94237	11	8	4	.9507	11	10	4	.95903
11	4	5	.93421	11	6	5	.94254	11	8	5	.95087	11	10	5	.95921
11	4	6	.93438	11	6	6	.94271	11	8	6	.95105	11	10	6	.95938
11	4	7	.93455	11	6	7	.94289	11	8	7	.95122	11	10	7	.95955
11	4	8	.93473	11	6	8	.94306	11	8	8	.95139	11	10	8	.95973
11	4	9	.9349	11	6	9	.94323	11	8	9	.95157	11	10	9	.9599
11	4	10	.93507	11	6	10	.94341	11	8	10	.95174	11	10	10	.96007
11	4	11	.93525	11	6	11	.94358	11	8	11	.95191	11	10	11	.96025
11	4	12	.93542	11	6	12	.94375	11	8	12	.95209	11	10	12	.96042
11	4	13	.9356	11	6	13	.94393	11	8	13	.95226	11	10	13	.9606
11	4	14	.93577	11	6	14	.9441	11	8	14	.95244	11	10	14	.96077
11	4	15	.93594	11	6	15	.94428	11	8	15	.95261	11	10	15	.96094
11	4	16	.93612	11	6	16	.94445	11	8	16	.95278	11	10	16	.96112
11	4	17	.93629	11	6	17	.94462	11	8	17	.95296	11	10	17	.96129
11	4	18	.93646	11	6	18	.9448	11	8	18	.95313	11	10	18	.96146
11	4	19	.93664	11	6	19	.94497	11	8	19	.9533	11	10	19	.96164
11	4	20	.93681	11	6	20	.94514	11	8	20	.95348	11	10	20	.96181
11	4	21	.93698	11	6	21	.94532	11	8	21	.95365	11	10	21	.96198
11	4	22	.93716	11	6	22	.94549	11	8	22	.95382	11	10	22	.96216
11	4	23	.93733	11	6	23	.94566	11	8	23	.954	11	10	23	.96233
11	5	0	.9375	11	7	0	.94584	11	9	0	.95417	11	11	0	.9625
11	5	1	.93768	11	7	1	.94601	11	9	1	.95435	11	11	1	.96268
11	5	2	.93785	11	7	2	.94619	11	9	2	.95452	11	11	2	.96285
11	5	3	.93803	11	7	3	.94636	11	9	3	.95469	11	11	3	.96303
11	5	4	.9382	11	7	4	.94653	11	9	4	.95487	11	11	4	.9632
11	5	5	.93837	11	7	5	.94671	11	9	5	.95504	11	11	5	.96337
11	5	6	.93855	11	7	6	.94688	11	9	6	.95521	11	11	6	.96355
11	5	7	.93872	11	7	7	.94705	11	9	7	.95539	11	11	7	.96372
11	5	8	.93889	11	7	8	.94723	11	9	8	.95556	11	11	8	.96389
11	5	9	.93907	11	7	9	.9474	11	9	9	.95573	11	11	9	.96407
11	5	10	.93924	11	7	10	.94757	11	9	10	.95591	11	11	10	.96424
11	5	11	.93941	11	7	11	.94775	11	9	11	.95608	11	11	11	.96441
11	5	12	.93959	11	7	12	.94792	11	9	12	.95625	11	11	12	.96459
11	5	13	.93976	11	7	13	.9481	11	9	13	.95643	11	11	13	.96476
11	5	14	.93994	11	7	14	.94827	11	9	14	.9566	11	11	14	.96494
11	5	15	.94011	11	7	15	.94844	11	9	15	.95678	11	11	15	.96511
11	5	16	.94028	11	7	16	.94862	11	9	16	.95695	11	11	16	.96528
11	5	17	.94046	11	7	17	.94879	11	9	17	.95712	11	11	17	.96546
11	5	18	.94063	11	7	18	.94896	11	9	18	.9573	11	11	18	.96563
11	5	19	.9408	11	7	19	.94914	11	9	19	.95747	11	11	19	.9658
11	5	20	.94098	11	7	20	.94931	11	9	20	.95764	11	11	20	.96598
11	5	21	.94115	11	7	21	.94948	11	9	21	.95782	11	11	21	.96615
11	5	22	.94132	11	7	22	.94966	11	9	22	.95799	11	11	22	.96632
11	5	23	.9415	11	7	23	.94983	11	9	23	.95816	11	11	23	.9665
11	6	0	.94167	11	8	0	.95	11	10	0	.95834	11	12	0	.96667



$$11 : 12 : 1 \text{ to } 12 : 0 : 0$$

## POUND TROY.

Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.	Oz.	Dwts.	Grs.	Decimals.
11	12	1	.96685	11	14	1	.97518	11	16	1	.98351	11	18	1	.99185
11	12	2	.96702	11	14	2	.97535	11	16	2	.98369	11	18	2	.99202
11	12	3	.96719	11	14	3	.97553	11	16	3	.98386	11	18	3	.99219
11	12	4	.96737	11	14	4	.9757	11	16	4	.98403	11	18	4	.99237
11	12	5	.96754	11	14	5	.97587	11	16	5	.98421	11	18	5	.99254
11	12	6	.96771	11	14	6	.97605	11	16	6	.98438	11	18	6	.99271
11	12	7	.96789	11	14	7	.97622	11	16	7	.98455	11	18	7	.99289
11	12	8	.96806	11	14	8	.97639	11	16	8	.98473	11	18	8	.99306
11	12	9	.96823	11	14	9	.97657	11	16	9	.9849	11	18	9	.99323
11	12	10	.96841	11	14	10	.97674	11	16	10	.98507	11	18	10	.99341
11	12	11	.96858	11	14	11	.97691	11	16	11	.98525	11	18	11	.99358
11	12	12	.96875	11	14	12	.97709	11	16	12	.98542	11	18	12	.99375
11	12	13	.96893	11	14	13	.97726	11	16	13	.9856	11	18	13	.99393
11	12	14	.9691	11	14	14	.97744	11	16	14	.98577	11	18	14	.9941
11	12	15	.96928	11	14	15	.97761	11	16	15	.98594	11	18	15	.99428
11	12	16	.96945	11	14	16	.97778	11	16	16	.98612	11	18	16	.99445
11	12	17	.96962	11	14	17	.97796	11	16	17	.98629	11	18	17	.99462
11	12	18	.9698	11	14	18	.97813	11	16	18	.98646	11	18	18	.9948
11	12	19	.96997	11	14	19	.9783	11	16	19	.98664	11	18	19	.99497
11	12	20	.97014	11	14	20	.97848	11	16	20	.98681	11	18	20	.99514
11	12	21	.97032	11	14	21	.97865	11	16	21	.98698	11	18	21	.99532
11	12	22	.97049	11	14	22	.97882	11	16	22	.98716	11	18	22	.99549
11	12	23	.97066	11	14	23	.979	11	16	23	.98733	11	18	23	.99566
11	13	0	.97084	11	15	0	.97917	11	17	0	.9875	11	19	0	.99584
11	13	1	.97101	11	15	1	.97935	11	17	1	.98768	11	19	1	.99601
11	13	2	.97119	11	15	2	.97952	11	17	2	.98785	11	19	2	.99619
11	13	3	.97136	11	15	3	.97969	11	17	3	.98803	11	19	3	.99636
11	13	4	.97153	11	15	4	.97987	11	17	4	.9882	11	19	4	.99653
11	13	5	.97171	11	15	5	.98004	11	17	5	.98837	11	19	5	.99671
11	13	6	.97188	11	15	6	.98021	11	17	6	.98855	11	19	6	.99688
11	13	7	.97205	11	15	7	.98039	11	17	7	.98872	11	19	7	.99705
11	13	8	.97223	11	15	8	.98056	11	17	8	.98889	11	19	8	.99723
11	13	9	.9724	11	15	9	.98073	11	17	9	.98907	11	19	9	.9974
11	13	10	.97257	11	15	10	.98091	11	17	10	.98924	11	19	10	.99757
11	13	11	.97275	11	15	11	.98108	11	17	11	.98941	11	19	11	.99775
11	13	12	.97292	11	15	12	.98125	11	17	12	.98959	11	19	12	.99792
11	13	13	.9731	11	15	13	.98143	11	17	13	.98976	11	19	13	.9981
11	13	14	.97327	11	15	14	.9816	11	17	14	.98994	11	19	14	.99827
11	13	15	.97344	11	15	15	.98178	11	17	15	.99011	11	19	15	.99844
11	13	16	.97362	11	15	16	.98195	11	17	16	.99028	11	19	16	.99862
11	13	17	.97379	11	15	17	.98212	11	17	17	.99046	11	19	17	.99879
11	13	18	.97396	11	15	18	.9823	11	17	18	.99063	11	19	18	.99896
11	13	19	.97414	11	15	19	.98247	11	17	19	.9908	11	19	19	.99914
11	13	20	.97431	11	15	20	.98264	11	17	20	.99098	11	19	20	.99931
11	13	21	.97448	11	15	21	.98282	11	17	21	.99115	11	19	21	.99948
11	13	22	.97466	11	15	22	.98299	11	17	22	.99132	11	19	22	.99966
11	13	23	.97483	11	15	23	.98316	11	17	23	.9915	11	19	23	.99983
11	14	0	.975	11	16	0	.98334	11	18	0	.99167	12	0	0	—

# TABLE.

The Decimals from One Farthing progressively to a Pound.

S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.
0	0 $\frac{1}{4}$	.00105	1	0 $\frac{1}{4}$	.05105	2	0 $\frac{1}{4}$	.10105	3	0 $\frac{1}{4}$	.15105
0	0 $\frac{1}{2}$	.00209	1	0 $\frac{1}{2}$	.05209	2	0 $\frac{1}{2}$	.10209	3	0 $\frac{1}{2}$	.15209
0	0 $\frac{3}{4}$	.00313	1	0 $\frac{3}{4}$	.05313	2	0 $\frac{3}{4}$	.10313	3	0 $\frac{3}{4}$	.15313
0	1	.00417	1	1	.05417	2	1	.10417	3	1	.15417
0	1 $\frac{1}{4}$	.00521	1	1 $\frac{1}{4}$	.05521	2	1 $\frac{1}{4}$	.10521	3	1 $\frac{1}{4}$	.15521
0	1 $\frac{1}{2}$	.00625	1	1 $\frac{1}{2}$	.05625	2	1 $\frac{1}{2}$	.10625	3	1 $\frac{1}{2}$	.15625
0	1 $\frac{3}{4}$	.0073	1	1 $\frac{3}{4}$	.0573	2	1 $\frac{3}{4}$	.1073	3	1 $\frac{3}{4}$	.1573
0	2	.00834	1	2	.05834	2	2	.10834	3	2	.15834
0	2 $\frac{1}{4}$	.00938	1	2 $\frac{1}{4}$	.05938	2	2 $\frac{1}{4}$	.10938	3	2 $\frac{1}{4}$	.15938
0	2 $\frac{1}{2}$	.01042	1	2 $\frac{1}{2}$	.06042	2	2 $\frac{1}{2}$	.11042	3	2 $\frac{1}{2}$	.16042
0	2 $\frac{3}{4}$	.01146	1	2 $\frac{3}{4}$	.06146	2	2 $\frac{3}{4}$	.11146	3	2 $\frac{3}{4}$	.16146
0	3	.0125	1	3	.0625	2	3	.1125	3	3	.1625
0	3 $\frac{1}{4}$	.01355	1	3 $\frac{1}{4}$	.06355	2	3 $\frac{1}{4}$	.11355	3	3 $\frac{1}{4}$	.16355
0	3 $\frac{1}{2}$	.01459	1	3 $\frac{1}{2}$	.06459	2	3 $\frac{1}{2}$	.11459	3	3 $\frac{1}{2}$	.16459
0	3 $\frac{3}{4}$	.01563	1	3 $\frac{3}{4}$	.06563	2	3 $\frac{3}{4}$	.11563	3	3 $\frac{3}{4}$	.16563
0	4	.01667	1	4	.06667	2	4	.11667	3	4	.16667
0	4 $\frac{1}{4}$	.01771	1	4 $\frac{1}{4}$	.06771	2	4 $\frac{1}{4}$	.11771	3	4 $\frac{1}{4}$	.16771
0	4 $\frac{1}{2}$	.01875	1	4 $\frac{1}{2}$	.06875	2	4 $\frac{1}{2}$	.11875	3	4 $\frac{1}{2}$	.16875
0	4 $\frac{3}{4}$	.0198	1	4 $\frac{3}{4}$	.0698	2	4 $\frac{3}{4}$	.1198	3	4 $\frac{3}{4}$	.1698
0	5	.02084	1	5	.07084	2	5	.12084	3	5	.17084
0	5 $\frac{1}{4}$	.02188	1	5 $\frac{1}{4}$	.07188	2	5 $\frac{1}{4}$	.12188	3	5 $\frac{1}{4}$	.17188
0	5 $\frac{1}{2}$	.02292	1	5 $\frac{1}{2}$	.07292	2	5 $\frac{1}{2}$	.12292	3	5 $\frac{1}{2}$	.17292
0	5 $\frac{3}{4}$	.02396	1	5 $\frac{3}{4}$	.07396	2	5 $\frac{3}{4}$	.12396	3	5 $\frac{3}{4}$	.17396
0	6	.025	1	6	.075	2	6	.125	3	6	.175
0	6 $\frac{1}{4}$	.02605	1	6 $\frac{1}{4}$	.07605	2	6 $\frac{1}{4}$	.12605	3	6 $\frac{1}{4}$	.17605
0	6 $\frac{1}{2}$	.02709	1	6 $\frac{1}{2}$	.07709	2	6 $\frac{1}{2}$	.12709	3	6 $\frac{1}{2}$	.17709
0	6 $\frac{3}{4}$	.02813	1	6 $\frac{3}{4}$	.07813	2	6 $\frac{3}{4}$	.12813	3	6 $\frac{3}{4}$	.17813
0	7	.02917	1	7	.07917	2	7	.12917	3	7	.17917
0	7 $\frac{1}{4}$	.03021	1	7 $\frac{1}{4}$	.08021	2	7 $\frac{1}{4}$	.13021	3	7 $\frac{1}{4}$	.18021
0	7 $\frac{1}{2}$	.03125	1	7 $\frac{1}{2}$	.08125	2	7 $\frac{1}{2}$	.13125	3	7 $\frac{1}{2}$	.18125
0	7 $\frac{3}{4}$	.0323	1	7 $\frac{3}{4}$	.0823	2	7 $\frac{3}{4}$	.1323	3	7 $\frac{3}{4}$	.1823
0	8	.03334	1	8	.08334	2	8	.13334	3	8	.18334
0	8 $\frac{1}{4}$	.03438	1	8 $\frac{1}{4}$	.08438	2	8 $\frac{1}{4}$	.13438	3	8 $\frac{1}{4}$	.18438
0	8 $\frac{1}{2}$	.03542	1	8 $\frac{1}{2}$	.08542	2	8 $\frac{1}{2}$	.13542	3	8 $\frac{1}{2}$	.18542
0	8 $\frac{3}{4}$	.03646	1	8 $\frac{3}{4}$	.08646	2	8 $\frac{3}{4}$	.13646	3	8 $\frac{3}{4}$	.18646
0	9	.0375	1	9	.0875	2	9	.1375	3	9	.1875
0	9 $\frac{1}{4}$	.03855	1	9 $\frac{1}{4}$	.08855	2	9 $\frac{1}{4}$	.13855	3	9 $\frac{1}{4}$	.18855
0	9 $\frac{1}{2}$	.03959	1	9 $\frac{1}{2}$	.08959	2	9 $\frac{1}{2}$	.13959	3	9 $\frac{1}{2}$	.18959
0	9 $\frac{3}{4}$	.04063	1	9 $\frac{3}{4}$	.09063	2	9 $\frac{3}{4}$	.14063	3	9 $\frac{3}{4}$	.19063
0	10	.04167	1	10	.09167	2	10	.14167	3	10	.19167
0	10 $\frac{1}{4}$	.04271	1	10 $\frac{1}{4}$	.09271	2	10 $\frac{1}{4}$	.14271	3	10 $\frac{1}{4}$	.19271
0	10 $\frac{1}{2}$	.04375	1	10 $\frac{1}{2}$	.09375	2	10 $\frac{1}{2}$	.14375	3	10 $\frac{1}{2}$	.19375
0	10 $\frac{3}{4}$	.0448	1	10 $\frac{3}{4}$	.0948	2	10 $\frac{3}{4}$	.1448	3	10 $\frac{3}{4}$	.1948
0	11	.04584	1	11	.09584	2	11	.14584	3	11	.19584
0	11 $\frac{1}{4}$	.04688	1	11 $\frac{1}{4}$	.09688	2	11 $\frac{1}{4}$	.14688	3	11 $\frac{1}{4}$	.19688
0	11 $\frac{1}{2}$	.04792	1	11 $\frac{1}{2}$	.09792	2	11 $\frac{1}{2}$	.14792	3	11 $\frac{1}{2}$	.19792
0	11 $\frac{3}{4}$	.04896	1	11 $\frac{3}{4}$	.09896	2	11 $\frac{3}{4}$	.14896	3	11 $\frac{3}{4}$	.19896
1	0	.05	2	0	1	3	0	.15	4	0	.2

$5 : 0\frac{1}{4} \text{ to } 10 : 0$ 

## POUND STERLING.

S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.
5	0 $\frac{1}{4}$	.25105	6	0 $\frac{1}{4}$	.30105	7	0 $\frac{1}{4}$	.35105	8	0 $\frac{1}{4}$	.40105	9	0 $\frac{1}{4}$	.45105
5	0 $\frac{1}{2}$	.25209	6	0 $\frac{1}{2}$	.30209	7	0 $\frac{1}{2}$	.35209	8	0 $\frac{1}{2}$	.40209	9	0 $\frac{1}{2}$	.45209
5	0 $\frac{3}{4}$	.25313	6	0 $\frac{3}{4}$	.30313	7	0 $\frac{3}{4}$	.35313	8	0 $\frac{3}{4}$	.40313	9	0 $\frac{3}{4}$	.45313
5	1	.25417	6	1	.30417	7	1	.35417	8	1	.40417	9	1	.45417
5	1 $\frac{1}{4}$	.25521	6	1 $\frac{1}{4}$	.30521	7	1 $\frac{1}{4}$	.35521	8	1 $\frac{1}{4}$	.40521	9	1 $\frac{1}{4}$	.45521
5	1 $\frac{1}{2}$	.25625	6	1 $\frac{1}{2}$	.30625	7	1 $\frac{1}{2}$	.35625	8	1 $\frac{1}{2}$	.40625	9	1 $\frac{1}{2}$	.45625
5	1 $\frac{3}{4}$	.2573	6	1 $\frac{3}{4}$	.3073	7	1 $\frac{3}{4}$	.3573	8	1 $\frac{3}{4}$	.4073	9	1 $\frac{3}{4}$	.4573
5	2	.25834	6	2	.30834	7	2	.35834	8	2	.40834	9	2	.45834
5	2 $\frac{1}{4}$	.25938	6	2 $\frac{1}{4}$	.30938	7	2 $\frac{1}{4}$	.35938	8	2 $\frac{1}{4}$	.40938	9	2 $\frac{1}{4}$	.45938
5	2 $\frac{1}{2}$	.26042	6	2 $\frac{1}{2}$	.31042	7	2 $\frac{1}{2}$	.36042	8	2 $\frac{1}{2}$	.41042	9	2 $\frac{1}{2}$	.46042
5	2 $\frac{3}{4}$	.26146	6	2 $\frac{3}{4}$	.31146	7	2 $\frac{3}{4}$	.36146	8	2 $\frac{3}{4}$	.41146	9	2 $\frac{3}{4}$	.46146
5	3	.2625	6	3	.3125	7	3	.3625	8	3	.4125	9	3	.4625
5	3 $\frac{1}{4}$	.26355	6	3 $\frac{1}{4}$	.31355	7	3 $\frac{1}{4}$	.36355	8	3 $\frac{1}{4}$	.41355	9	3 $\frac{1}{4}$	.46355
5	3 $\frac{1}{2}$	.26459	6	3 $\frac{1}{2}$	.31459	7	3 $\frac{1}{2}$	.36459	8	3 $\frac{1}{2}$	.41459	9	3 $\frac{1}{2}$	.46459
5	3 $\frac{3}{4}$	.26563	6	3 $\frac{3}{4}$	.31563	7	3 $\frac{3}{4}$	.36563	8	3 $\frac{3}{4}$	.41563	9	3 $\frac{3}{4}$	.46563
5	4	.26667	6	4	.31667	7	4	.36667	8	4	.41667	9	4	.46667
5	4 $\frac{1}{4}$	.26771	6	4 $\frac{1}{4}$	.31771	7	4 $\frac{1}{4}$	.36771	8	4 $\frac{1}{4}$	.41771	9	4 $\frac{1}{4}$	.46771
5	4 $\frac{1}{2}$	.26875	6	4 $\frac{1}{2}$	.31875	7	4 $\frac{1}{2}$	.36875	8	4 $\frac{1}{2}$	.41875	9	4 $\frac{1}{2}$	.46875
5	4 $\frac{3}{4}$	.2698	6	4 $\frac{3}{4}$	.3198	7	4 $\frac{3}{4}$	.3698	8	4 $\frac{3}{4}$	.4198	9	4 $\frac{3}{4}$	.4698
5	5	.27084	6	5	.32084	7	5	.37084	8	5	.42084	9	5	.47084
5	5 $\frac{1}{4}$	.27188	6	5 $\frac{1}{4}$	.32188	7	5 $\frac{1}{4}$	.37188	8	5 $\frac{1}{4}$	.42188	9	5 $\frac{1}{4}$	.47188
5	5 $\frac{1}{2}$	.27292	6	5 $\frac{1}{2}$	.32292	7	5 $\frac{1}{2}$	.37292	8	5 $\frac{1}{2}$	.42292	9	5 $\frac{1}{2}$	.47292
5	5 $\frac{3}{4}$	.27396	6	5 $\frac{3}{4}$	.32396	7	5 $\frac{3}{4}$	.37396	8	5 $\frac{3}{4}$	.42396	9	5 $\frac{3}{4}$	.47396
5	6	.275	6	6	.325	7	6	.375	8	6	.425	9	6	.475
5	6 $\frac{1}{4}$	.27605	6	6 $\frac{1}{4}$	.32605	7	6 $\frac{1}{4}$	.37605	8	6 $\frac{1}{4}$	.42605	9	6 $\frac{1}{4}$	.47605
5	6 $\frac{1}{2}$	.27709	6	6 $\frac{1}{2}$	.32709	7	6 $\frac{1}{2}$	.37709	8	6 $\frac{1}{2}$	.42709	9	6 $\frac{1}{2}$	.47709
5	6 $\frac{3}{4}$	.27813	6	6 $\frac{3}{4}$	.32813	7	6 $\frac{3}{4}$	.37813	8	6 $\frac{3}{4}$	.42813	9	6 $\frac{3}{4}$	.47813
5	7	.27917	6	7	.32917	7	7	.37917	8	7	.42917	9	7	.47917
5	7 $\frac{1}{4}$	.28021	6	7 $\frac{1}{4}$	.33021	7	7 $\frac{1}{4}$	.38021	8	7 $\frac{1}{4}$	.43021	9	7 $\frac{1}{4}$	.48021
5	7 $\frac{1}{2}$	.28125	6	7 $\frac{1}{2}$	.33125	7	7 $\frac{1}{2}$	.38125	8	7 $\frac{1}{2}$	.43125	9	7 $\frac{1}{2}$	.48125
5	7 $\frac{3}{4}$	.2823	6	7 $\frac{3}{4}$	.3323	7	7 $\frac{3}{4}$	.3823	8	7 $\frac{3}{4}$	.4323	9	7 $\frac{3}{4}$	.4823
5	8	.28334	6	8	.33334	7	8	.38334	8	8	.43334	9	8	.48334
5	8 $\frac{1}{4}$	.28438	6	8 $\frac{1}{4}$	.33438	7	8 $\frac{1}{4}$	.38438	8	8 $\frac{1}{4}$	.43438	9	8 $\frac{1}{4}$	.48438
5	8 $\frac{1}{2}$	.28542	6	8 $\frac{1}{2}$	.33542	7	8 $\frac{1}{2}$	.38542	8	8 $\frac{1}{2}$	.43542	9	8 $\frac{1}{2}$	.48542
5	8 $\frac{3}{4}$	.28646	6	8 $\frac{3}{4}$	.33646	7	8 $\frac{3}{4}$	.38646	8	8 $\frac{3}{4}$	.43646	9	8 $\frac{3}{4}$	.48646
5	9	.2875	6	9	.3375	7	9	.3875	8	9	.4375	9	9	.4875
5	9 $\frac{1}{4}$	.28855	6	9 $\frac{1}{4}$	.33855	7	9 $\frac{1}{4}$	.38855	8	9 $\frac{1}{4}$	.43855	9	9 $\frac{1}{4}$	.48855
5	9 $\frac{1}{2}$	.28959	6	9 $\frac{1}{2}$	.33959	7	9 $\frac{1}{2}$	.38959	8	9 $\frac{1}{2}$	.43959	9	9 $\frac{1}{2}$	.48959
5	9 $\frac{3}{4}$	.29063	6	9 $\frac{3}{4}$	.34063	7	9 $\frac{3}{4}$	.39063	8	9 $\frac{3}{4}$	.44063	9	9 $\frac{3}{4}$	.49063
5	10	.29167	6	10	.34167	7	10	.39167	8	10	.44167	9	10	.49167
5	10 $\frac{1}{4}$	.29271	6	10 $\frac{1}{4}$	.34271	7	10 $\frac{1}{4}$	.39271	8	10 $\frac{1}{4}$	.44271	9	10 $\frac{1}{4}$	.49271
5	10 $\frac{1}{2}$	.29375	6	10 $\frac{1}{2}$	.34375	7	10 $\frac{1}{2}$	.39375	8	10 $\frac{1}{2}$	.44375	9	10 $\frac{1}{2}$	.49375
5	10 $\frac{3}{4}$	.2948	6	10 $\frac{3}{4}$	.3448	7	10 $\frac{3}{4}$	.3948	8	10 $\frac{3}{4}$	.4448	9	10 $\frac{3}{4}$	.4948
5	11	.29584	6	11	.34584	7	11	.39584	8	11	.44584	9	11	.49584
5	11 $\frac{1}{4}$	.29688	6	11 $\frac{1}{4}$	.34688	7	11 $\frac{1}{4}$	.39688	8	11 $\frac{1}{4}$	.44688	9	11 $\frac{1}{4}$	.49688
5	11 $\frac{1}{2}$	.29792	6	11 $\frac{1}{2}$	.34792	7	11 $\frac{1}{2}$	.39792	8	11 $\frac{1}{2}$	.44792	9	11 $\frac{1}{2}$	.49792
5	11 $\frac{3}{4}$	.29896	6	11 $\frac{3}{4}$	.34896	7	11 $\frac{3}{4}$	.39896	8	11 $\frac{3}{4}$	.44896	9	11 $\frac{3}{4}$	.49896
6	0	.3	7	0	.35	8	0	.4	9	0	.45	10	0	.5

## POUND STEELING.

[ 10 : 04 to 15 : 0

S	D	Decimals	S	D	Decimals	S	D	Decimals	S	D	Decimals	S	D	Decimals
10	01	.50105	11	01	.55105	12	01	.60105	13	01	.65105	14	01	.70105
10	02	.50209	11	02	.55209	12	02	.60209	13	02	.65209	14	02	.70209
10	03	.50313	11	03	.55313	12	03	.60313	13	03	.65313	14	03	.70313
10	04	.50417	11	04	.55417	12	04	.60417	13	04	.65417	14	04	.70417
10	05	.50521	11	05	.55521	12	05	.60521	13	05	.65521	14	05	.70521
10	06	.50625	11	06	.55625	12	06	.60625	13	06	.65625	14	06	.70625
10	07	.5073	11	07	.5573	12	07	.6073	13	07	.6573	14	07	.7073
10	08	.50834	11	08	.55834	12	08	.60834	13	08	.65834	14	08	.70834
10	09	.50938	11	09	.55938	12	09	.60938	13	09	.65938	14	09	.70938
10	10	.51042	11	10	.56042	12	10	.61042	13	10	.66042	14	10	.71042
10	11	.51146	11	11	.56146	12	11	.61146	13	11	.66146	14	11	.71146
10	12	.5125	11	12	.5625	12	12	.6125	13	12	.6625	14	12	.7125
10	13	.51355	11	13	.56355	12	13	.61355	13	13	.66355	14	13	.71355
10	14	.51459	11	14	.56459	12	14	.61459	13	14	.66459	14	14	.71459
10	15	.51563	11	15	.56563	12	15	.61563	13	15	.66563	14	15	.71563
10	16	.51667	11	16	.56667	12	16	.61667	13	16	.66667	14	16	.71667
10	17	.51771	11	17	.56771	12	17	.61771	13	17	.66771	14	17	.71771
10	18	.51875	11	18	.56875	12	18	.61875	13	18	.66875	14	18	.71875
10	19	.5198	11	19	.5698	12	19	.6198	13	19	.6698	14	19	.7198
10	20	.52084	11	20	.57084	12	20	.62084	13	20	.67084	14	20	.72084
10	21	.52188	11	21	.57188	12	21	.62188	13	21	.67188	14	21	.72188
10	22	.52292	11	22	.57292	12	22	.62292	13	22	.67292	14	22	.72292
10	23	.52396	11	23	.57396	12	23	.62396	13	23	.67396	14	23	.72396
10	24	.525	11	24	.575	12	24	.625	13	24	.675	14	24	.725
10	25	.52605	11	25	.57605	12	25	.62605	13	25	.67605	14	25	.72605
10	26	.52709	11	26	.57709	12	26	.62709	13	26	.67709	14	26	.72709
10	27	.52813	11	27	.57813	12	27	.62813	13	27	.67813	14	27	.72813
10	28	.52917	11	28	.57917	12	28	.62917	13	28	.67917	14	28	.72917
10	29	.53021	11	29	.58021	12	29	.63021	13	29	.68021	14	29	.73021
10	30	.53125	11	30	.58125	12	30	.63125	13	30	.68125	14	30	.73125
10	31	.5323	11	31	.5823	12	31	.6323	13	31	.6823	14	31	.7323
10	32	.53334	11	32	.58334	12	32	.63334	13	32	.68334	14	32	.73334
10	33	.53438	11	33	.58438	12	33	.63438	13	33	.68438	14	33	.73438
10	34	.53542	11	34	.58542	12	34	.63542	13	34	.68542	14	34	.73542
10	35	.53646	11	35	.58646	12	35	.63646	13	35	.68646	14	35	.73646
10	36	.5375	11	36	.5875	12	36	.6375	13	36	.6875	14	36	.7375
10	37	.53855	11	37	.58855	12	37	.63855	13	37	.68855	14	37	.73855
10	38	.53959	11	38	.58959	12	38	.63959	13	38	.68959	14	38	.73959
10	39	.54063	11	39	.59063	12	39	.64063	13	39	.69063	14	39	.74063
10	40	.54167	11	40	.59167	12	40	.64167	13	40	.69167	14	40	.74167
10	41	.54271	11	41	.59271	12	41	.64271	13	41	.69271	14	41	.74271
10	42	.54375	11	42	.59375	12	42	.64375	13	42	.69375	14	42	.74375
10	43	.5448	11	43	.5948	12	43	.6448	13	43	.6948	14	43	.7448
10	44	.54584	11	44	.59584	12	44	.64584	13	44	.69584	14	44	.74584
10	45	.54688	11	45	.59688	12	45	.64688	13	45	.69688	14	45	.74688
10	46	.54792	11	46	.59792	12	46	.64792	13	46	.69792	14	46	.74792
10	47	.54896	11	47	.59896	12	47	.64896	13	47	.69896	14	47	.74896
10	48	.55	11	48	.6	12	48	.65	13	48	.7	14	48	.75

15 : 0 $\frac{1}{4}$  to 20 : 0]

## POUND STERLING.

S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.	S.	D.	Decimals.
15	0 $\frac{1}{4}$	.75105	16	0 $\frac{1}{4}$	.80105	17	0 $\frac{1}{4}$	.85105	18	0 $\frac{1}{4}$	.90105	19	0 $\frac{1}{4}$	.95105
15	0 $\frac{1}{2}$	.75209	16	0 $\frac{1}{2}$	.80209	17	0 $\frac{1}{2}$	.85209	18	0 $\frac{1}{2}$	.90209	19	0 $\frac{1}{2}$	.95209
15	0 $\frac{3}{4}$	.75313	16	0 $\frac{3}{4}$	.80313	17	0 $\frac{3}{4}$	.85313	18	0 $\frac{3}{4}$	.90313	19	0 $\frac{3}{4}$	.95313
15	1	.75417	16	1	.80417	17	1	.85417	18	1	.90417	19	1	.95417
15	1 $\frac{1}{4}$	.75521	16	1 $\frac{1}{4}$	.80521	17	1 $\frac{1}{4}$	.85521	18	1 $\frac{1}{4}$	.90521	19	1 $\frac{1}{4}$	.95521
15	1 $\frac{1}{2}$	.75625	16	1 $\frac{1}{2}$	.80625	17	1 $\frac{1}{2}$	.85625	18	1 $\frac{1}{2}$	.90625	19	1 $\frac{1}{2}$	.95625
15	1 $\frac{3}{4}$	.7573	16	1 $\frac{3}{4}$	.8073	17	1 $\frac{3}{4}$	.8573	18	1 $\frac{3}{4}$	.9073	19	1 $\frac{3}{4}$	.9573
15	2	.75834	16	2	.80834	17	2	.85834	18	2	.90834	19	2	.95834
15	2 $\frac{1}{4}$	.75938	16	2 $\frac{1}{4}$	.80938	17	2 $\frac{1}{4}$	.85938	18	2 $\frac{1}{4}$	.90938	19	2 $\frac{1}{4}$	.95938
15	2 $\frac{1}{2}$	.76042	16	2 $\frac{1}{2}$	.81042	17	2 $\frac{1}{2}$	.86042	18	2 $\frac{1}{2}$	.91042	19	2 $\frac{1}{2}$	.96042
15	2 $\frac{3}{4}$	.76146	16	2 $\frac{3}{4}$	.81146	17	2 $\frac{3}{4}$	.86146	18	2 $\frac{3}{4}$	.91146	19	2 $\frac{3}{4}$	.96146
15	3	.7625	16	3	.8125	17	3	.8625	18	3	.9125	19	3	.9625
15	3 $\frac{1}{4}$	.76355	16	3 $\frac{1}{4}$	.81355	17	3 $\frac{1}{4}$	.86355	18	3 $\frac{1}{4}$	.91355	19	3 $\frac{1}{4}$	.96355
15	3 $\frac{1}{2}$	.76459	16	3 $\frac{1}{2}$	.81459	17	3 $\frac{1}{2}$	.86459	18	3 $\frac{1}{2}$	.91459	19	3 $\frac{1}{2}$	.96459
15	3 $\frac{3}{4}$	.76563	16	3 $\frac{3}{4}$	.81563	17	3 $\frac{3}{4}$	.86563	18	3 $\frac{3}{4}$	.91563	19	3 $\frac{3}{4}$	.96563
15	4	.76667	16	4	.81667	17	4	.86667	18	4	.91667	19	4	.96667
15	4 $\frac{1}{4}$	.76771	16	4 $\frac{1}{4}$	.81771	17	4 $\frac{1}{4}$	.86771	18	4 $\frac{1}{4}$	.91771	19	4 $\frac{1}{4}$	.96771
15	4 $\frac{1}{2}$	.76875	16	4 $\frac{1}{2}$	.81875	17	4 $\frac{1}{2}$	.86875	18	4 $\frac{1}{2}$	.91875	19	4 $\frac{1}{2}$	.96875
15	4 $\frac{3}{4}$	.7698	16	4 $\frac{3}{4}$	.8198	17	4 $\frac{3}{4}$	.8698	18	4 $\frac{3}{4}$	.9198	19	4 $\frac{3}{4}$	.9698
15	5	.77084	16	5	.82084	17	5	.87084	18	5	.92084	19	5	.97084
15	5 $\frac{1}{4}$	.77188	16	5 $\frac{1}{4}$	.82188	17	5 $\frac{1}{4}$	.87188	18	5 $\frac{1}{4}$	.92188	19	5 $\frac{1}{4}$	.97188
15	5 $\frac{1}{2}$	.77292	16	5 $\frac{1}{2}$	.82292	17	5 $\frac{1}{2}$	.87292	18	5 $\frac{1}{2}$	.92292	19	5 $\frac{1}{2}$	.97292
15	5 $\frac{3}{4}$	.77396	16	5 $\frac{3}{4}$	.82396	17	5 $\frac{3}{4}$	.87396	18	5 $\frac{3}{4}$	.92396	19	5 $\frac{3}{4}$	.97396
15	6	.775	16	6	.825	17	6	.875	18	6	.925	19	6	.975
15	6 $\frac{1}{4}$	.77605	16	6 $\frac{1}{4}$	.82605	17	6 $\frac{1}{4}$	.87605	18	6 $\frac{1}{4}$	.92605	19	6 $\frac{1}{4}$	.97605
15	6 $\frac{1}{2}$	.77709	16	6 $\frac{1}{2}$	.82709	17	6 $\frac{1}{2}$	.87709	18	6 $\frac{1}{2}$	.92709	19	6 $\frac{1}{2}$	.97709
15	6 $\frac{3}{4}$	.77813	16	6 $\frac{3}{4}$	.82813	17	6 $\frac{3}{4}$	.87813	18	6 $\frac{3}{4}$	.92813	19	6 $\frac{3}{4}$	.97813
15	7	.77917	16	7	.82917	17	7	.87917	18	7	.92917	19	7	.97917
15	7 $\frac{1}{4}$	.78021	16	7 $\frac{1}{4}$	.83021	17	7 $\frac{1}{4}$	.88021	18	7 $\frac{1}{4}$	.93021	19	7 $\frac{1}{4}$	.98021
15	7 $\frac{1}{2}$	.78125	16	7 $\frac{1}{2}$	.83125	17	7 $\frac{1}{2}$	.88125	18	7 $\frac{1}{2}$	.93125	19	7 $\frac{1}{2}$	.98125
15	7 $\frac{3}{4}$	.7823	16	7 $\frac{3}{4}$	.8323	17	7 $\frac{3}{4}$	.8823	18	7 $\frac{3}{4}$	.9323	19	7 $\frac{3}{4}$	.9823
15	8	.78334	16	8	.83334	17	8	.88334	18	8	.93334	19	8	.98334
15	8 $\frac{1}{4}$	.78438	16	8 $\frac{1}{4}$	.83438	17	8 $\frac{1}{4}$	.88438	18	8 $\frac{1}{4}$	.93438	19	8 $\frac{1}{4}$	.98438
15	8 $\frac{1}{2}$	.78542	16	8 $\frac{1}{2}$	.83542	17	8 $\frac{1}{2}$	.88542	18	8 $\frac{1}{2}$	.93542	19	8 $\frac{1}{2}$	.98542
15	8 $\frac{3}{4}$	.78646	16	8 $\frac{3}{4}$	.83646	17	8 $\frac{3}{4}$	.88646	18	8 $\frac{3}{4}$	.93646	19	8 $\frac{3}{4}$	.98646
15	9	.7875	16	9	.8375	17	9	.8875	18	9	.9375	19	9	.9875
15	9 $\frac{1}{4}$	.78855	16	9 $\frac{1}{4}$	.83855	17	9 $\frac{1}{4}$	.88855	18	9 $\frac{1}{4}$	.93855	19	9 $\frac{1}{4}$	.98855
15	9 $\frac{1}{2}$	.78959	16	9 $\frac{1}{2}$	.83959	17	9 $\frac{1}{2}$	.88959	18	9 $\frac{1}{2}$	.93959	19	9 $\frac{1}{2}$	.98959
15	9 $\frac{3}{4}$	.79063	16	9 $\frac{3}{4}$	.84063	17	9 $\frac{3}{4}$	.89063	18	9 $\frac{3}{4}$	.94063	19	9 $\frac{3}{4}$	.99063
15	10	.79167	16	10	.84167	17	10	.89167	18	10	.94167	19	10	.99167
15	10 $\frac{1}{4}$	.79271	16	10 $\frac{1}{4}$	.84271	17	10 $\frac{1}{4}$	.89271	18	10 $\frac{1}{4}$	.94271	19	10 $\frac{1}{4}$	.99271
15	10 $\frac{1}{2}$	.79375	16	10 $\frac{1}{2}$	.84375	17	10 $\frac{1}{2}$	.89375	18	10 $\frac{1}{2}$	.94375	19	10 $\frac{1}{2}$	.99375
15	10 $\frac{3}{4}$	.7948	16	10 $\frac{3}{4}$	.8448	17	10 $\frac{3}{4}$	.8948	18	10 $\frac{3}{4}$	.9448	19	10 $\frac{3}{4}$	.9948
15	11	.79584	16	11	.84584	17	11	.89584	18	11	.94584	19	11	.99584
15	11 $\frac{1}{4}$	.79688	16	11 $\frac{1}{4}$	.84688	17	11 $\frac{1}{4}$	.89688	18	11 $\frac{1}{4}$	.94688	19	11 $\frac{1}{4}$	.99688
15	11 $\frac{1}{2}$	.79792	16	11 $\frac{1}{2}$	.84792	17	11 $\frac{1}{2}$	.89792	18	11 $\frac{1}{2}$	.94792	19	11 $\frac{1}{2}$	.99792
15	11 $\frac{3}{4}$	.79896	16	11 $\frac{3}{4}$	.84896	17	11 $\frac{3}{4}$	.89896	18	11 $\frac{3}{4}$	.94896	19	11 $\frac{3}{4}$	.99896
16	0	.8	17	0	.85	18	0	.9	19	0	.95	20	0	—

## **A P P E N D I X.**



# TABLE,

*SHEWING THE NAMES AND DIVISIONS OF THE CLASSES.*

Millions.	Hundreds of Thousands.	Tens of Thousands.	Thousands.	Hundreds.	Tens.	Units.	Tenth Parts.	Hundredth Parts.	Thousandth Parts.	Ten Thousandth Parts.	Hundred Thousandth Parts.	Millionth Parts.
6	5	4	3	2	1	.	1	2	3	4	5	6

From the above Table, it appears that whole numbers increase in a ten-fold proportion towards the left-hand, and, on the contrary, decimals decrease towards the right-hand in a ten-fold proportion.

Hence it will appear, that cyphers put on the right-hand of whole numbers, increase the value of those numbers in a ten-fold proportion: but being annexed to the right-hand of a decimal fraction, neither increase nor decrease the value of it.



*Calculations by the RULE OF PRACTICE comparative with those by DECIMALS.*

## OUNCES TROY.

To find the amount of 225 oz. 19 dwts. and 19 grs. of Gold Bullion, at £3. 17s. 10½d. per oz.

		Oz. Dwts. Grs.
6d.	½	225 : 19 : 19
		s.77 : 10½
		1575
		1575
3	½	112 : 6
1½	½	56 : 3
10	½	28 : 1½
5	½	38 : 11½
4	½	19 : 5½
16	½	15 : 6½
2	½	2 : 7
1	½	0 : 3½
		0 : 1½
20		17598 : 10½
		£879 : 18 : 10½

		Oz. Dwts. Grs.
10s.	½	225 : 19 : 19
		£3 : 17 : 10½
		675
5	½	112 : 10
2 : 6	½	56 : 5
3d.	10	28 : 2 : 6
1½	½	2 : 16 : 3
10	½	1 : 8 : 1½
5	½	1 : 18 : 11½
4	½	0 : 19 : 5½
16	½	0 : 15 : 6½
2	½	0 : 2 : 7½
1	½	0 : 0 : 3½
		0 : 0 : 1½
		£879 : 18 : 11½

(See Table, p. 17.)

6d.	½	Oz. 225 98959
		s.77 : 10½
		1581.92713
		1.819.2713
3	½	112.00479
1½	½	56.49739
		28.24869
20		17598.93030
		£879.94696=18 : 11½

(Abbreviated.)

10s.	½	Oz. 225 98959
		£3 17 10½
		677.9688
5	½	112.9948
2 : 6	½	56.4971
3d.	10	28.2487
1½	½	2.8248
		1.4124
		£879.9469=18 : 11½

## OUNCES reduced into POUNDS, and the price made equivalent thereto.

To find the amount of 225 oz. 19 dwts. and 19 grs. of Gold Bullion, at £3. 17s. 6d. per oz.; and also of 225 lbs. 8 oz. 16 dwts. 18 grs., at £46. 10s. per lb.

(See Table, p. 17.)

Oz. 356.8375	or,
£3 : 17 : 6	
1070.5125	
178.4187	
89.2093	
44.6046	
£1382.7451=14 : 11	

(See Table, p. 17.)

Oz. 356.8375	
£4	
1427.3500	
44.6047	
£1382.7453=14 : 11	

(See Table, p. 41.)

Lbs. 20.73646	
£46.5	
14869230	
17841876	
11894584	
£1382.745390=14 : 11	

## RULE

### *For finding the Value of the Decimal of a Pound Sterling.*

Double the first figure (or place of primes) and the produce is so many shillings, and if the second figure be 5 or more than 5, add another shilling. Then for every unit in the second place count ten, (each being one-tenth apart), and to that add the figure in the third place and reckon that as so many farthings; but if they make 25 abate 1, and if 49 abate 2, and annex them to the shillings already found.

## EXPLANATION

Of the preceding Calculations for ascertaining the value of the Decimals in a Pound Sterling, &c.

In the first Example, page 56 find the decimal part of the quotient to be .94696, but the first three thereof will suffice to find their value in Pound Sterling. First, we double the 9 making 18s., and the 4 following are 4 tens, and the 6 make 46, which being above 25 we therefore cast away 1, and there remains 45 farthings or  $11\frac{1}{4}d.$ , making together 18s.  $11\frac{1}{4}d.$ , and the total amount is £879. 18s.  $11\frac{1}{4}d.$  By this short and simple method, their reduction by 20, 12, and 4, is avoided.

In cases where either the multiplicand or multiplier, or both factors, have any decimals annexed, care must be taken to strike off the same number of the quotient as are contained in either one or both of them, (see Examples in page 56); and this Rule also applies to division.

Let 76 of a Pound Sterling be reduced to Shillings, Pence, and Farthings.

First, we double the 7 making 14, next we take 5 out of 6, and for that we reckon another shilling and it makes 15s., and the 1 remaining is one ten, to which we annex a cypher and it makes 10 farthings or  $2\frac{1}{2}d.$  So the answer is 15s.  $2\frac{1}{2}d.$

The necessity for adding 1, when 5 or upwards, will be obvious, by referring to the Sterling Table, page 49, wherein the decimal .05 gives exactly "one shilling."

$$\begin{array}{r} 20 \\ \hline 100 \end{array}$$

But when a cypher comes out on the right-hand place of a decimal, as in Ex. 1st, page 56, we may always reject it.

Let us reduce 2s. 6d., 10s., 15s., and 17s. 6d. into the Decimals of a Pound.

$$\begin{array}{r} 12 \overline{) 60} \\ 24 \\ \hline 36 \\ 20 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 20 \overline{) 10.0} \\ 40 \\ \hline 60 \\ 20 \\ \hline 800 \end{array}$$

$$\begin{array}{r} 20 \overline{) 15.00} \\ 40 \\ \hline 100 \\ 20 \\ \hline 1200 \end{array}$$

$$\begin{array}{r} 4 \overline{) 3.00} \\ 12 \\ \hline 12 \\ \hline 17.5025 \end{array}$$

.878125

## HUNDREDS WEIGHT.

To find the amount of 45 cwt. 1 qr. and 23 lbs. of Demerara Coffee, at 85s. 10d. per cwt.

		Cwts. Qr. lbs.			Cwts. Qr. lbs.			(See Table, p. 3.)
6d.	$\frac{1}{2}$	45 : 1 : 23	5s.	$\frac{1}{4}$	45 : 1 : 23	5s.	$\frac{1}{4}$	Cwt. 45.45536
		s. 85 : 10			£4 : 5 : 10			£4 : 5 : 10
		225			180			181.82144
		360	10d.	$\frac{1}{8}$	11 : 5	10d.	$\frac{1}{8}$	11.36384
4	$\frac{1}{4}$	22 : 6	1	$\frac{1}{4}$	1 : 17 : 6			1.89397
1	$\frac{1}{4}$	15 : 0	16	$\frac{1}{4}$	1 : 1 : 5 $\frac{1}{2}$			£195.07925 = 1 · 7
14	$\frac{1}{2}$	21 : 5 $\frac{1}{2}$	7	$\frac{1}{4}$	0 : 12 : 3 $\frac{1}{2}$			
7	$\frac{1}{2}$	10 : 8 $\frac{1}{2}$			0 : 5 : 4 $\frac{1}{2}$			
2	$\frac{1}{4}$	5 : 4 $\frac{1}{2}$			£195 : 1 : 6 $\frac{1}{2}$			
		1 : 6 $\frac{1}{2}$						
20		3001 : 6 $\frac{1}{2}$						
		£195 : 1 : 6 $\frac{1}{2}$						

To find the amount of 34 cwt. 3 qrs. and 18 lbs. of East India Sugar, at £1. 1s. 8d. per cwt.

		(See Table, p. 3.)
$\frac{1}{12}$	Cwts. 34.91072	
	2.90922	
	£37.81994 = 16 : 4 $\frac{1}{2}$	

To reduce the above 34 cwt. 3 qrs. and 18 lbs. (were it required) into lbs. at one operation by 112.

34	
408	
102	
lbs. 3910	

### EXPLANATION.

From the preceding Example we take a part of the quotient only, viz. .079; then we take 5 out of 7, and for that we reckon another shilling, and the two remaining are two tens and the 9 make 29, which being above 25 we cast away 1, and there remains 28 farthings or 7d, making together 1s. 7d.; and the whole amount is £195. 1s. 7d.

# TONS WEIGHT.

To find the amount of 87 tons, 19 cwt., 3 qrs., and 19 lbs. of Riga Flax, at £75. 14s. per ton.

Tons. Cwt. Qrs. lbs.		
10s.	$\frac{1}{2}$	87 : 19 : 3 : 19
		£75 : 14
		435
		609
4	$\frac{1}{3}$	43 : 10
		17 : 8
Cwt. Qrs. lbs.		19 : 3 : 19
		75 : 7 : 10 $\frac{1}{2}$
		£6661 : 5 : 10 $\frac{1}{2}$

£ s. d.		
10	$\frac{1}{2}$	75 : 14 : 0
5	$\frac{1}{2}$	37 : 17 : 0
4	$\frac{1}{4}$	18 : 18 : 6
2	$\frac{1}{8}$	15 : 2 : 9 $\frac{1}{2}$
1	$\frac{1}{8}$	1 : 17 : 10 $\frac{1}{8}$
14	$\frac{1}{2}$	0 : 18 : 11
4	$\frac{1}{4}$	0 : 9 : 5 $\frac{1}{2}$
1	$\frac{1}{4}$	0 : 2 : 8 $\frac{1}{4}$
		0 : 0 : 8
		£75 : 7 : 10 $\frac{1}{2}$

(See Table, p. 14.)

10s.	$\frac{1}{2}$	Tons. 87.99599
		£75 : 14
		43997995
		61597193
4	$\frac{1}{3}$	43997995
		17599198
		£ 6661.296443=5 : 11 $\frac{1}{2}$

(See Table, p. 14.)

Tons. 87.99599
£75.7
61597193
43997995
61597193
£ 6661.296443=5 : 11 $\frac{1}{2}$

(Abbreviated.)

Tons. 87.999
£75.7
615972
439980
615972
£ 6661.2972=5 : 11 $\frac{1}{2}$

To find the amount of 56 tons, 11 cwt., 2 qrs., and 15 lbs. of Iron, at £16. 15s., and also at £18. per ton.

(See Table, p. 12.)

Tons. 56.7317
£16.75
2836585
3971219
3403902
567317
£ 950.255975=5 : 1 $\frac{1}{2}$

(See Table, p. 12.)

Tons. 56.7317
£17
3971219
567317
9641380
141820
£ 950.2560=5 : 1 $\frac{1}{2}$

(See Table, p. 12.)

Tons. 56.7317
4538536
£ 1021.1706=3 : 5

To find the amount of 56 tons, 14 cwt., 2 qrs., and 15 lbs. of Fustic, at £10., and also at £11. 17s. 6d. per ton.

(See Table, p. 12.)

Tons. 56.7317
£10
5673170=6 : 4 $\frac{1}{2}$

(See Table, p. 12.)

Tons. 56.7317
£11 875
2836585
3971219
4538530
6240487
£ 673.6889375=13 : 9 $\frac{1}{2}$

(See Table, p. 12.)

Tons. 56.7317
£12
680.7804
7.0914
£ 673.6890=13 : 9 $\frac{1}{2}$

## EXPLANATION.

From the above example we take a part of the quotient only, viz. 296; then we double the 2 making 4, next we take 5 out of 9 and for that we reckon another shilling, and it makes 5s., and the 4 remaining are four tens and the 0 make 46, which being above 25 we cast away 1, and there remains 45 farthings or 11 $\frac{1}{2}$ d.; and the total amount is £6661. 5s. 11 $\frac{1}{2}$ d.

It may here be observed, that the decimals in the first example have been extended merely to agree in number with the one following.

The last example (owing to the decimal being abbreviated) gives one farthing more than the preceding ones. This increase may also be partly attributed to a third figure in the multiplicand, which enhances the decimal places towards the point. But such decimals as .0038 and the like, whose third digit is 9, should on no account whatever be curtailed.

## MISCELLANEOUS.

To find the amount of £872. 17s. 6d. Stock, at  $78\frac{1}{2}$  per cent.

10s.	$\frac{1}{2}$	£872 : 17 : 6	£50.	$\frac{1}{2}$	£78 : 2	$\frac{1}{2}$	£872.875
		78 $\frac{1}{2}$			8,72 : 17 : 6		78 $\frac{1}{2}$
		6976			625 : 0 : 0		6983000
		6104		20	39 : 1 : 3		6110125
		109		27.10s.	15 : 12 : 6		109109
5	$\frac{1}{2}$	39 : 1 : 3	5s.	$\frac{1}{2}$	1 : 19 : 0	$\frac{1}{2}$	£681,93.359=18 . 8
2 : 6	$\frac{1}{2}$	19 : 10 : 7 $\frac{1}{2}$	2 : 6	$\frac{1}{2}$	0 : 3 : 10 $\frac{8}{10}$		
		9 : 15 : 3 $\frac{3}{4}$			0 : 1 : 11		
		£681,93 . 7 : 2 $\frac{1}{2}$			£681 . 18 : . $\frac{1}{2}$		
		20					
		18,67					
		12					
		d. 8,06					

To find the amount of 258 cwt., 0 gr., and 26 lbs. of Manufactured Copper, at £5. 16s 8d. per cwt.; and also of 12 tons, 18 cwt 0 gr., and 26 lbs., at an equivalent price of £116. 13s 1d. per ton.

(See Table, p. 3.)		or,	(See Table, p. 3.)		(See Table, p. 14.)	
10s.	$\frac{1}{2}$		£100. 258.23215	$\frac{1}{2}$	10s.	$\frac{1}{2}$
			£5 : 16 : 8		Tons.	1291161
			1291.16075			£116 : 13 : 4
6 : 8	$\frac{1}{2}$		129.11607			77 16966
			86.07738			1420 2771
			£1506.35420 = 7 . 1			6 4558
						2 15193
						£1506 35 149 = 7 . 1

Multiply, £19. 19s. 11 $\frac{3}{4}$ d. by £19. 19s. 11 $\frac{3}{4}$ d.

(See Table, p. 52.)	
£19.99896	
£19.99896	
11999376	
17999064	
15999168	
17999064	
17999064	
17999064	
17999064	
£309.9584010816 = 19 : 2	

Lastly—From the above examples, and that practicable variety of decimals displayed in the preceding Tables, it is presumed they will be found of great utility in commercial calculations in general.

# **TIME TABLES.**

## TABLE,

Shewing the Number of Days from any Day in one Month, to the same Day in any other Month.

	<i>Jan.</i>	<i>Feb.</i>	<i>March.</i>	<i>April.</i>	<i>May.</i>	<i>June.</i>	<i>July.</i>	<i>Aug.</i>	<i>Sept.</i>	<i>Oct.</i>	<i>Nov.</i>	<i>Dec.</i>
<i>January</i> ..	365	31	59	90	120	151	181	212	243	273	304	334
<i>February</i> .	334	365	28	59	89	120	150	181	212	242	273	303
<i>March</i> ..	306	337	365	31	61	92	122	153	184	214	245	275
<i>April</i> ...	275	306	334	365	30	61	91	122	153	183	214	244
<i>May</i> ....	245	276	304	335	365	31	61	92	123	153	184	214
<i>June</i> ....	214	245	273	304	334	365	30	61	92	122	153	183
<i>July</i> ...	184	215	243	274	304	335	365	31	62	92	123	153
<i>August</i> ..	153	184	212	243	273	304	334	365	31	61	92	122
<i>September</i>	122	153	181	212	242	273	303	334	365	30	61	91
<i>October</i> ..	92	123	151	182	212	243	273	304	335	365	31	61
<i>November</i>	61	92	120	151	181	212	242	273	304	334	365	30
<i>December</i>	31	62	96	121	151	182	212	243	274	304	335	365

### EXPLANATION,

For ascertaining the Number of Days from the 10th of January to the 10th of June, &c.

Look for January in the first column towards the left-hand, and June at the head of the Table, and in the angle meeting June will appear that 151 are the number of days required.

*Note.*—Should the first given date exceed the second, (for instance, from the 15th of January to the 10th of any other month) add the difference to the number of days found; but, if less, deduct it therefrom.

## TABLE FOR LEAP-YEAR,

Shewing the Number of Days from any Day in one Month, to the same Day in any other Month.

	<i>Jan.</i>	<i>Feb.</i>	<i>March.</i>	<i>April.</i>	<i>May.</i>	<i>June.</i>	<i>July.</i>	<i>Aug.</i>	<i>Sept.</i>	<i>Oct.</i>	<i>Nov.</i>	<i>Dec.</i>
<i>January</i> ..	366	31	60	91	121	152	182	213	244	274	305	335
<i>February</i> .	335	366	29	60	90	121	151	182	213	243	274	304
<i>March</i> ..	306	337	366	31	61	92	122	153	184	214	245	275
<i>April</i> ....	275	306	335	366	30	61	91	122	153	183	214	244
<i>May</i> ....	245	276	305	336	366	31	61	92	123	153	184	214
<i>June</i> ....	214	245	274	305	335	366	30	61	92	122	153	183
<i>July</i> ....	184	215	244	275	305	336	366	31	62	92	123	153
<i>August</i> ..	153	184	213	244	274	305	335	366	31	61	92	122
<i>September</i>	122	153	182	213	243	274	304	335	366	30	61	91
<i>October</i> ..	92	123	152	183	213	244	274	305	336	366	31	61
<i>November</i>	61	92	121	152	182	213	243	274	305	335	366	30
<i>December</i>	31	62	91	122	152	183	213	244	275	305	336	366

### EXPLANATION.

For ascertaining the Number of Days from the 24th of June to the 24th of May, &c.

Look for June in the first column towards the left-hand, and May at the head of the Table, and in the angle meeting May it will appear that 335 are the number of days required.

*Note.*—Should the first given date exceed the second, (for instance, from the 30th of June to the 24th of any other month) add the difference to the number of days found; but, if less, deduct it therefrom.



## TABLE,

Shewing, at one view, the Number of Days from any Day after the 1st of January to the 30th of June, inclusive.

<i>Jan. 31.</i>	<i>Feb. 28.</i>	<i>March 31.</i>	<i>April 30.</i>	<i>May 31.</i>	<i>June 30.</i>
1 *180	1 149	1 121	1 90	1 60	1 29
2 179	2 148	2 120	2 89	2 59	2 28
3 178	3 147	3 119	3 88	3 58	3 27
4 177	4 146	4 118	4 87	4 57	4 26
5 176	5 145	5 117	5 86	5 56	5 25
6 175	6 144	6 116	6 85	6 55	6 24
7 174	7 143	7 115	7 84	7 54	7 23
8 173	8 142	8 114	8 83	8 53	8 22
9 172	9 141	9 113	9 82	9 52	9 21
10 171	10 140	10 112	10 81	10 51	10 20
11 170	11 139	11 111	11 80	11 50	11 19
12 169	12 138	12 110	12 79	12 49	12 18
13 168	13 137	13 109	13 78	13 48	13 17
14 167	14 136	14 108	14 77	14 47	14 16
15 166	15 135	15 107	15 76	15 46	15 15
16 165	16 134	16 106	16 75	16 45	16 14
17 164	17 133	17 105	17 74	17 44	17 13
18 163	18 132	18 104	18 73	18 43	18 12
19 162	19 131	19 103	19 72	19 42	19 11
20 161	20 130	20 102	20 71	20 41	20 10
21 160	21 129	21 101	21 70	21 40	21 9
22 159	22 128	22 100	22 69	22 39	22 8
23 158	23 127	23 99	23 68	23 38	23 7
24 157	24 126	24 98	24 67	24 37	24 6
25 156	25 125	25 97	25 66	25 36	25 5
26 155	26 124	26 96	26 65	26 35	26 4
27 154	27 123	27 95	27 64	27 34	27 3
28 153	28 122	28 94	28 63	28 33	28 2
29 152		29 93	29 62	29 32	29 1
30 151		30 92	30 61	30 31	30 —
31 150		31 91		31 30	—

\* From the 1st of January to the 30th of June (both Days inclusive,) are 181 Days.

# TABLE,

Shewing, at one view, the Number of Days from any Day after the 1st of January to the 31st of December, inclusive.

Jan. 31.	Feb. 28.	March 31.	April 30.	May 31.	June 30.	July 31.	Aug. 31.	Sept. 30.	Oct. 31.	Nov. 30.	Dec. 31.
1 364	1 333	1 305	1 274	1 244	1 213	1 183	1 152	1 121	1 91	1 60	1 30
2 363	2 332	2 304	2 273	2 243	2 212	2 182	2 151	2 120	2 90	2 59	2 29
3 362	3 331	3 303	3 272	3 242	3 211	3 181	3 150	3 119	3 89	3 58	3 28
4 361	4 330	4 302	4 271	4 241	4 210	4 180	4 149	4 118	4 88	4 57	4 27
5 360	5 329	5 301	5 270	5 240	5 209	5 179	5 148	5 117	5 87	5 56	5 26
6 359	6 328	6 300	6 269	6 239	6 208	6 178	6 147	6 116	6 86	6 55	6 25
7 358	7 327	7 299	7 268	7 238	7 207	7 177	7 146	7 115	7 85	7 54	7 24
8 357	8 326	8 298	8 267	8 237	8 206	8 176	8 145	8 114	8 84	8 53	8 23
9 356	9 325	9 297	9 266	9 236	9 205	9 175	9 144	9 113	9 83	9 52	9 22
10 355	10 324	10 296	10 265	10 235	10 204	10 174	10 143	10 112	10 82	10 51	10 21
11 354	11 323	11 295	11 264	11 234	11 203	11 173	11 142	11 111	11 81	11 50	11 20
12 353	12 322	12 294	12 263	12 233	12 202	12 172	12 141	12 110	12 80	12 49	12 19
13 352	13 321	13 293	13 262	13 232	13 201	13 171	13 140	13 109	13 79	13 48	13 18
14 351	14 320	14 292	14 261	14 231	14 200	14 170	14 139	14 108	14 78	14 47	14 17
15 350	15 319	15 291	15 260	15 230	15 199	15 169	15 138	15 107	15 77	15 46	15 16
16 349	16 318	16 290	16 259	16 229	16 198	16 168	16 137	16 106	16 76	16 45	16 15
17 348	17 317	17 289	17 258	17 228	17 197	17 167	17 136	17 105	17 75	17 44	17 14
18 347	18 316	18 288	18 257	18 227	18 196	18 166	18 135	18 104	18 74	18 43	18 13
19 346	19 315	19 287	19 256	19 226	19 195	19 165	19 134	19 103	19 73	19 42	19 12
20 345	20 314	20 286	20 255	20 225	20 194	20 164	20 133	20 102	20 72	20 41	20 11
21 344	21 313	21 285	21 254	21 224	21 193	21 163	21 132	21 101	21 71	21 40	21 10
22 343	22 312	22 284	22 253	22 223	22 192	22 162	22 131	22 100	22 70	22 39	22 9
23 342	23 311	23 283	23 252	23 222	23 191	23 161	23 130	23 99	23 69	23 38	23 8
24 341	24 310	24 282	24 251	24 221	24 190	24 160	24 129	24 98	24 68	24 37	24 7
25 340	25 309	25 281	25 250	25 220	25 189	25 159	25 128	25 97	25 67	25 36	25 6
26 339	26 308	26 280	26 249	26 219	26 188	26 158	26 127	26 96	26 66	26 35	26 5
27 338	27 307	27 279	27 248	27 218	27 187	27 157	27 126	27 95	27 65	27 34	27 4
28 337	28 306	28 278	28 247	28 217	28 186	28 156	28 125	28 94	28 64	28 33	28 3
29 336	—	29 277	29 246	29 216	29 185	29 155	29 124	29 93	29 63	29 32	29 2
30 335	—	30 276	30 245	30 215	30 184	30 154	30 123	30 92	30 62	30 31	30 1
31 334	—	31 275	—	31 214	—	31 153	31 122	—	31 61	—	31 —

\* From the 1st of January to the 31st of December, (both days inclusive) are odd days.

## TABLE FOR LEAP-YEAR,

Shewing, at one view, the Number of Days from any Day after the 1st of January, to the 30th of June, inclusive.

<i>Jan.</i> 31.	<i>Feb.</i> 29.	<i>March</i> 31.	<i>April</i> 30.	<i>May</i> 31.	<i>June</i> 30.
1 *181	1 150	1 121	90	1 60	1 29
2 180	2 149	2 120	2 89	2 59	2 28
3 179	3 148	3 119	3 88	3 58	3 27
4 178	4 147	4 118	4 87	4 57	4 26
5 177	5 146	5 117	5 86	5 56	5 25
6 176	6 145	6 116	6 85	6 55	6 24
7 175	7 144	7 115	7 84	7 54	7 23
8 174	8 143	8 114	8 83	8 53	8 22
9 173	9 142	9 113	9 82	9 52	9 21
10 172	10 141	10 112	10 81	10 51	10 20
11 171	11 140	11 111	11 80	11 50	11 19
12 170	12 139	12 110	12 79	12 49	12 18
13 169	13 138	13 109	13 78	13 48	13 17
14 168	14 137	14 108	14 77	14 47	14 16
15 167	15 136	15 107	15 76	15 46	15 15
16 166	16 135	16 106	16 75	16 45	16 14
17 165	17 134	17 105	17 74	17 44	17 13
18 164	18 133	18 104	18 73	18 43	18 12
19 163	19 132	19 103	19 72	19 42	19 11
20 162	20 131	20 102	20 71	20 41	20 10
21 161	21 130	21 101	21 70	21 40	21 9
22 160	22 129	22 100	22 69	22 39	22 8
23 159	23 128	23 99	23 68	23 38	23 7
24 158	24 127	24 98	24 67	24 37	24 6
25 157	25 126	25 97	25 66	25 36	25 5
26 156	26 125	26 96	26 65	26 35	26 4
27 155	27 124	27 95	27 64	27 34	27 3
28 154	28 123	28 94	28 63	28 33	28 2
29 153	29 122	29 93	29 62	29 32	29 1
30 152	—	30 92	30 61	30 31	30 —
31 151	—	31 91	—	31 30	—

\* From the 1st of January to the 30th of June, (both Days inclusive) are 182 Days

# TABLE for LEAP-YEAR,

Shewing, at one view, the Number of Days from any Day after the 1st of January  
to the 31st of December, inclusive.

Jan. 31.	Feb. 29.	March 31.	April 30.	May 31.	June 30.	July 31.	Aug. 31.	Sept. 30.	Oct. 31.	Nov. 30.	Dec. 31.
1 365	1 334	1 305	1 274	1 244	1 213	1 183	1 152	1 121	1 91	1 60	1 30
2 364	2 333	2 304	2 273	2 243	2 212	2 182	2 151	2 120	2 90	2 59	2 29
3 363	3 332	3 303	3 272	3 242	3 211	3 181	3 150	3 119	3 89	3 58	3 28
4 362	4 331	4 302	4 271	4 241	4 210	4 180	4 149	4 118	4 88	4 57	4 27
5 361	5 330	5 301	5 270	5 240	5 209	5 179	5 148	5 117	5 87	5 56	5 26
6 360	6 329	6 300	6 269	6 239	6 208	6 178	6 147	6 116	6 86	6 55	6 25
7 359	7 328	7 299	7 268	7 238	7 207	7 177	7 146	7 115	7 85	7 54	7 24
8 358	8 327	8 298	8 267	8 237	8 206	8 176	8 145	8 114	8 84	8 53	8 23
9 357	9 326	9 297	9 266	9 236	9 205	9 175	9 144	9 113	9 83	9 52	9 22
10 356	10 325	10 296	10 265	10 235	10 204	10 174	10 143	10 112	10 82	10 51	10 21
11 355	11 324	11 295	11 264	11 234	11 203	11 173	11 142	11 111	11 81	11 50	11 20
12 354	12 323	12 294	12 263	12 233	12 202	12 172	12 141	12 110	12 80	12 49	12 19
13 353	13 322	13 293	13 262	13 232	13 201	13 171	13 140	13 109	13 79	13 48	13 18
14 352	14 321	14 292	14 261	14 231	14 200	14 170	14 139	14 108	14 78	14 47	14 17
15 351	15 320	15 291	15 260	15 230	15 199	15 169	15 138	15 107	15 77	15 46	15 16
16 350	16 319	16 290	16 259	16 229	16 198	16 168	16 137	16 106	16 76	16 45	16 15
17 349	17 318	17 289	17 258	17 228	17 197	17 167	17 136	17 105	17 75	17 44	17 14
18 348	18 317	18 288	18 257	18 227	18 196	18 166	18 135	18 104	18 74	18 43	18 13
19 347	19 316	19 287	19 256	19 226	19 195	19 165	19 134	19 103	19 73	19 42	19 12
20 346	20 315	20 286	20 255	20 225	20 194	20 164	20 133	20 102	20 72	20 41	20 11
21 345	21 314	21 285	21 254	21 224	21 193	21 163	21 132	21 101	21 71	21 40	21 10
22 344	22 313	22 284	22 253	22 223	22 192	22 162	22 131	22 100	22 70	22 39	22 9
23 343	23 312	23 283	23 252	23 222	23 191	23 161	23 130	23 99	23 69	23 38	23 8
24 342	24 311	24 282	24 251	24 221	24 190	24 160	24 129	24 98	24 68	24 37	24 7
25 341	25 310	25 281	25 250	25 220	25 189	25 159	25 128	25 97	25 67	25 36	25 6
26 340	26 309	26 280	26 249	26 219	26 188	26 158	26 127	26 96	26 66	26 35	26 5
27 339	27 308	27 279	27 248	27 218	27 187	27 157	27 126	27 95	27 65	27 34	27 4
28 338	28 307	28 278	28 247	28 217	28 186	28 156	28 125	28 94	28 64	28 33	28 3
29 337	29 306	29 277	29 246	29 216	29 185	29 155	29 124	29 93	29 63	29 32	29 2
30 336	—	30 276	30 245	30 215	30 184	30 154	30 123	30 92	30 62	30 31	30 1
31 335	—	31 275	—	31 214	—	31 153	31 122	—	31 61	—	31 —

\* From the 1st of January to the 31st of December, (both Days inclusive) are 366 Days.

LONDON.  
PRINTED BY D. S. MARICE, FENCHURCH-STREET

*London, September 25, 1821.*

I HAVE inspected the Decimal Tables compiled by Mr. WILSGATE: the Work appears to be perspicuous and well-arranged, and will no doubt be of essential service to the Mercantile World.

CHARLES CARTWRIGHT,  
*Accountant-General to the Hon. East India Company*

HAVING been requested to give my opinion of Mr. WILSGATE'S DECIMAL TABLES, I have so far examined them, as to believe the calculations are very correct. As to the utility of the Work, it must be obvious to every man of business, and therefore cannot fail to be extensively encouraged.

P. KELLY.

*Finsbury Square, July 12, 1823.*

SIR,

*Tottenham, July 14, 1823.*

I HAVE inspected your Book on Money and Weight, by Decimals;—I consider it a Work of great merit, and likely to prove of general advantage to the Mercantile World.

I am, SIR,

Yours very respectfully,

WALTER LORD.

*Well Court, Queen Street, May 9, 1823.*

SIR,

I HAVE to inform you, that my partiality to the use of Decimal Numbers made me consider the publication of your well-arranged, accurate, and extensive Decimal Tables, as conferring an obligation upon all who have much practice in the calculations of the Counting-House.

I have the pleasure to farther acquaint you, that I make frequent use of them in my professional employment, and I have seen them used, and often heard them approved, in many of the Mercantile Establishments in London; and I sincerely wish that an extensive public patronage may repay you for the labour you have bestowed upon them.

I have the pleasure to be,

SIR,

Your most obedient servant,

W. TATE.

*3, Church Court, Old Jewry, June 30, 1823.*

SIR,

I HAVE examined your Publication of Decimal Tables, and I much approve of them. I consider the Work as one likely to be useful to the Public, and I have to add my recommendation in its favour.

I am of opinion that if they could be more generally introduced, their value would be better known and appreciated, as well in Mercantile Concerns, as in Mensuration and Mathematical Calculations.

I am, SIR,

Yours, respectfully,

A. DUNCAN, Accountant

*Extract from the New Monthly Magazine, May 1st, 1823*

THIS is a very useful and well-executed Work, and we are glad to see that it has been patronized by the Public Departments and Corporate Bodies, including the Bank of England, as well as by the most eminent Mercantile Men in London, who have subscribed to it.









